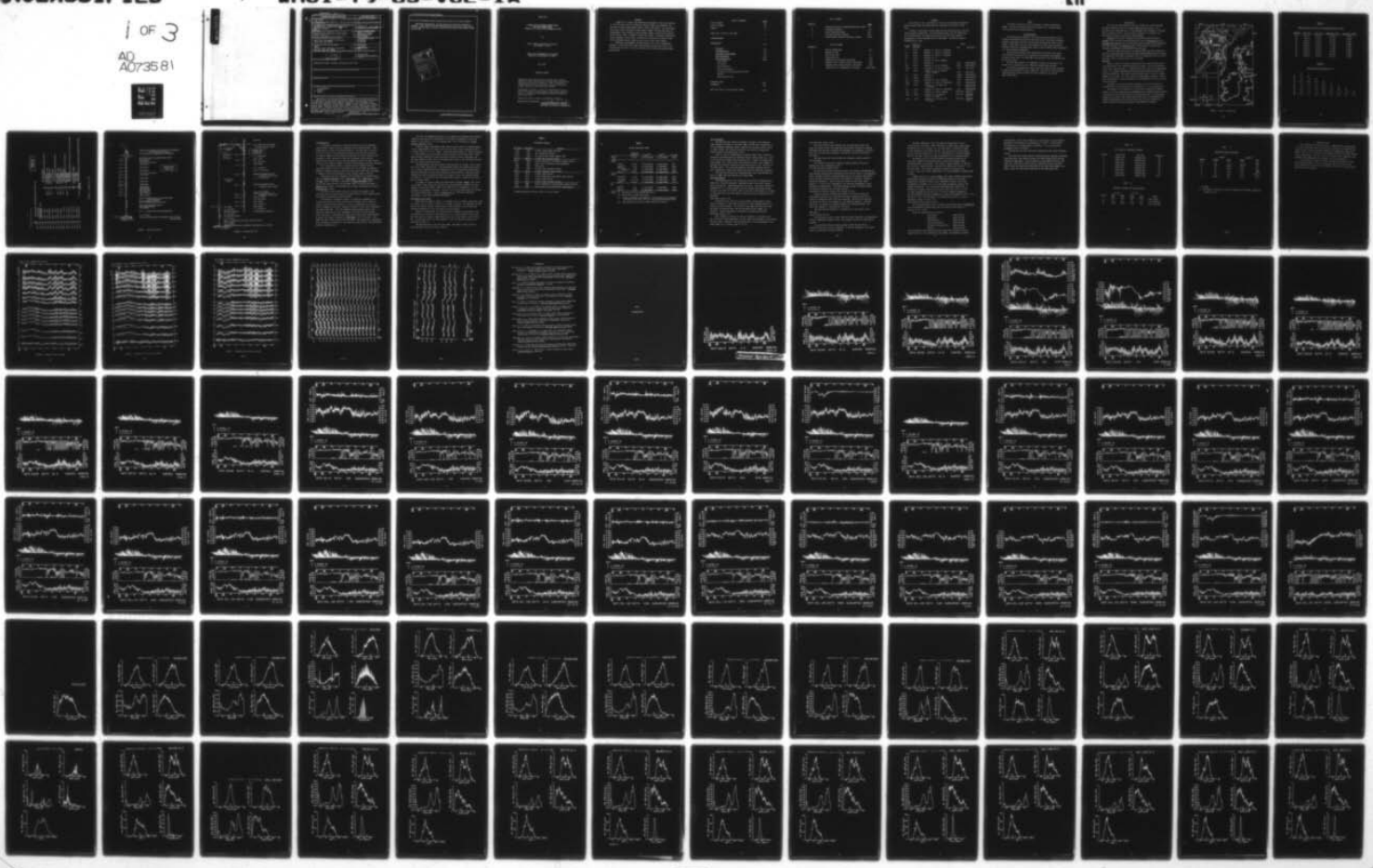
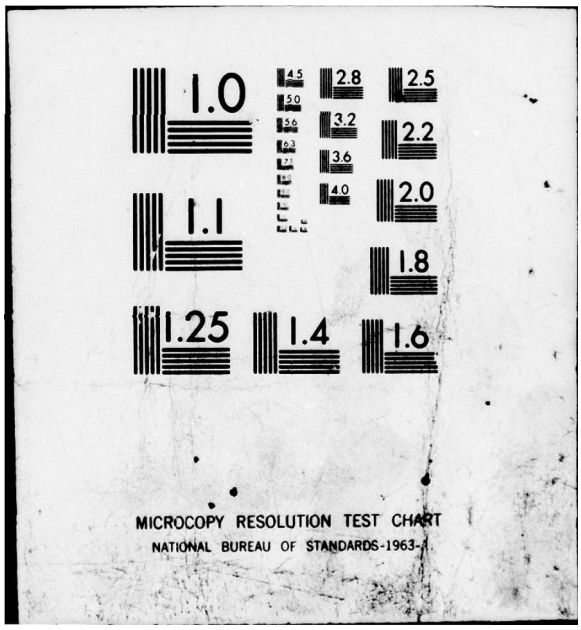
AD-A073 581 WOODS HOLE OCEANOGRAPHIC INSTITUTION MASS F/G 8/10
A COMPILATION OF MOORED CURRENT METER AND WIND RECORDER DATA. V--ETC(U)
JUL 79 S TARBELL, M G BRISCOE, R A WELLER N00014-76-C-0197
UNCLASSIFIED WHOI-79-65-VOL-1A NL

1 OF 3
AD A073581




1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
4.5
5.0
5.6
6.3
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

UNCLASSIFIED 7/79

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER: WHOI-79-65-Vol-18 (14)	2. GOVT ACCESSION NO.
3. RECIPIENT'S CATALOG NUMBER (9)	
4. TITLE (and Subtitle): A COMPILATION OF MOORED CURRENT METER AND WIND RECORDER DATA, VOLUME XVIII, (JASIN 1978, MOORINGS 651-653) (6)	5. TYPE OF REPORT & PERIOD COVERED: Technical Report
	6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s): Susan Tarbell, Melbourne G. Briscoe and Robert A. Weller (10)	8. CONTRACT OR GRANT NUMBER(s): N00014-76-C-0197, N00014-75-C-0152, OCE 77-25803 (15)
9. PERFORMING ORGANIZATION NAME AND ADDRESS: Woods Hole Oceanographic Institution, Woods Hole, MA 02543	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS: NR 083-400, NR 083-005
11. CONTROLLING OFFICE NAME AND ADDRESS: NORDA, National Space Technology Laboratory, Bay St. Louis, MS 39529 (11)	12. REPORT DATE: July 1979
	13. NUMBER OF PAGES: 233
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office): (12) 238 p.	15. SECURITY CLASS. (of this report): Unclassified
	15a. DECLASSIFICATION/DOWNGRADING SCHEDULE

16. DISTRIBUTION STATEMENT (of this Report)

Approved for public release; distribution unlimited.

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

1. Current Meters
2. Moorings
3. JASIN

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

Summaries of current and temperature measurements from three moorings in the 1978 Joint Air-Sea Interaction Project (JASIN) are presented; the moorings are WHOI/JASIN numbers 651/W1, 652/W2, and 653/W3. The instruments were either Vector Averaging Current Meters (VACM), Scripps Institution of Oceanography Vector Measuring Currents Meters (VMCM), or Neil Brown Acoustic Current Meters (ACM). Displays include time series, histograms, progressive vector diagrams, scatter plots, and spectra; statistics are given for (cont. on back)

381900

the entire deployment period (some 40 days) and for each 5-day segment.

Additional measurements include pressure and vertical temperature gradient. Wind records and other meteorological observations from one of the moorings are given, as well as partial wind records from another JASIN mooring (H2).

WHOI-79-65

A COMPILATION OF MOORED CURRENT METER AND WIND RECORDER DATA VOLUME XVIII (JASIN 1978, MOORINGS 651-653)

by

Susan Tarbell, Melbourne G. Briscoe,
and Robert A. Weller

WOODS HOLE OCEANOGRAPHIC INSTITUTION
Woods Hole, Massachusetts 02543

July 1979

TECHNICAL REPORT

Prepared for the Office of Naval Research under Contract N00014-76-C-0197; NR 083-400 to the Woods Hole Oceanographic Institution and Contract N00014-75-C-0152; NR 083-005 to Scripps Institution of Oceanography, and for the National Science Foundation under Grant OCE 77-25803.

Approved for Distribution: _____

Valentine Worthington, Chairman
Department of Physical Oceanography

ABSTRACT

Summaries of current and temperature measurements from three moorings in the 1978 Joint Air-Sea Interaction Project (JASIN) are presented; the moorings are WHOI/JASIN numbers 651/W1, 652/W2, and 653/W3. The instruments were either Vector Averaging Current Meters (VACM), Scripps Institution of Oceanography Vector Measuring Current Meters (VMCM), or Neil Brown Acoustic Current Meters (ACM). Displays include time series, histograms, progressive vector diagrams, scatter plots, and spectra; statistics are given for the entire deployment period (some 40 days) and for each 5-day segment.

Additional measurements include pressure and vertical temperature gradient. Wind records and other meteorological observations from one of the moorings are given, as well as partial wind records from another JASIN mooring (H2).

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

PREFACE

This volume is the eighteenth in a series of Data Reports presenting moored current meter and associated data collected by the W.H.O.I. Buoy Group.

Volumes I through XVII present data from the years 1963-1971, and from several special experiments: the 1970 Pollard array, the 1973 IWEX array, the 1973 MODE array, the MODE Site moorings, the Saint Croix mooring measurements, and the POLYMODE Array II experiment. Volume XIX presents POLYMODE Array I data.

Volume No.	W.H.O.I. Technical Ref. No.		Notes	
			Year	Experiment
I	65-44	Webster, F., and N. P. Fofonoff		
II	66-60	Webster, F., and N. P. Fofonoff		
III	67-66	Webster, F., and N. P. Fofonoff		
IV	70-40	Pollard, R. T.		
V	71-50	Tarbell, S., and F. Webster		
VI	74-4	Tarbell, S.	1967	measurements
VII	74-52	Chausse, D., and S. Tarbell	1968	measurements
VIII	75-7	Pollard, R. T., and S. Tarbell	1970	Array Data
IX	75-68	Tarbell, S., M. G. Briscoe, and D. Chausse	1973	IWEX Array
X	76-40	Tarbell, S.	1969a	measurements
XI	76-41	Tarbell, S.	1969b	measurements
XII	76-101	Chausse, D., and S. Tarbell	1973	MODE Array
XIII	77-18	Tarbell, S., and A. W. Whitlatch	1970	measurements
XIV	77-41	Tarbell, S., R. Payne, and R. Walden	1976	mooring 592 Saint Croix
XV	77-56	Tarbell, S., and A. W. Whitlatch	1971	measurements
XVI	78-5	Tarbell, S., and A. Spencer	1971-1975	MODE Site
XVII	78-49	Tarbell, S., A. Spencer, and R. E. Payne	1975-1977	POLYMODE Array II
XIX	79-34	Spencer, A., C. Mills, and R. Payne	1974-1975	POLYMODE Array I

INDEX

The Table of Contents lists all material in these introductory pages. See the fold-out last page of the report for a detailed index to the plotted and tabulated material.

ACKNOWLEDGMENTS

The Engineering, Operations, and Data Processing sections of the Moored Array Experiments project (the "Buoy Group") efficiently designed, prepared, deployed, recovered, and produced the Woods Hole data in this report. Terry McKee and Carol Mills handled the basic data processing, and Nancy Pennington performed many tasks at sea and ashore that contributed to a well-documented experiment.

The Scripps instruments were prepared by Steve Wald, Bill Powell, and Jim Parks, and the initial processing was performed with programs written by Russ Davis; the deployment and recovery of the instruments were by the Buoy Group.

We thank David Halpern of NOAA/PMEL in Seattle for the use of his toroid H2 as a platform for the VMWR wind sensors H2S1 and H2S2.

The Scripps instruments and their initial processing were supported by ONR Contract N00014-75-C-0152, NR083-005. The W.H.O.I. work has been supported by ONR Contract N00014-76-C-0197, NR083-400, and by NSF Grant OCE77-25803.

INTRODUCTION

The Joint Air-Sea Interaction project (JASIN) was a multi-national program initiated in 1966 by the Royal Meteorological Society (U.K.); its major field experiment was in July-September 1978 northwest of Scotland near the Rockall Trough. Some 14 ships, 4 aircraft, 9 countries, and three-score principal investigators participated.

Pollard (1978) gives a summary of the overall JASIN 1978 plans, Briscoe (1979) describes the participation of the R/V Atlantis-II (A-II), Pennington and Briscoe (1979) provide plots and listings of the hydrographic data from the A-II, and Briscoe, et al. (1979) discuss the moored and shipborne meteorological measurements from the A-II.

This data report presents all the mooring data from three Woods Hole moorings, including current meters and wind recorders/meteorological sensors; the temperature data from an Aanderaa TR-1 30 m thermistor chain on the W3 spar buoy (W.H.O.I. mooring 653) is not included.

Moorings

Figure 1 shows the overall JASIN area and the Fixed Intensive Array (FIA) where most of the JASIN moorings were located. The FIA is detailed in the lower left of Figure 1. Mooring K1 from the Institut für Meereskunde (Kiel, F. R. Germany)and moorings B1-B4 from Oregon State University are shown for reference. This report describes data from W1 (W.H.O.I. mooring number 651), W2 (652), W3 (653), and H2 from NOAA/PMEL in Seattle. Table 1 gives the positions, nominal separations, and deployment and recovery times for W1-W3 and H2.

Figures 2-4 show the engineering design of the three Woods Hole moorings W1-W3; H2 is similar to W2 in design but not in instrumentation.

The purpose of the moorings in the FIA was to examine the smaller scales of air-sea interactions and atmospherically generated oceanic motions. In particular, the current meters on W1 and W2 were part of a mixed-layer dynamics and internal wave energy balance experiment; the meteorological sensors gave supporting data and the spar buoy (W3) was intended as a stable platform for mooring/instrument intercomparison purposes.

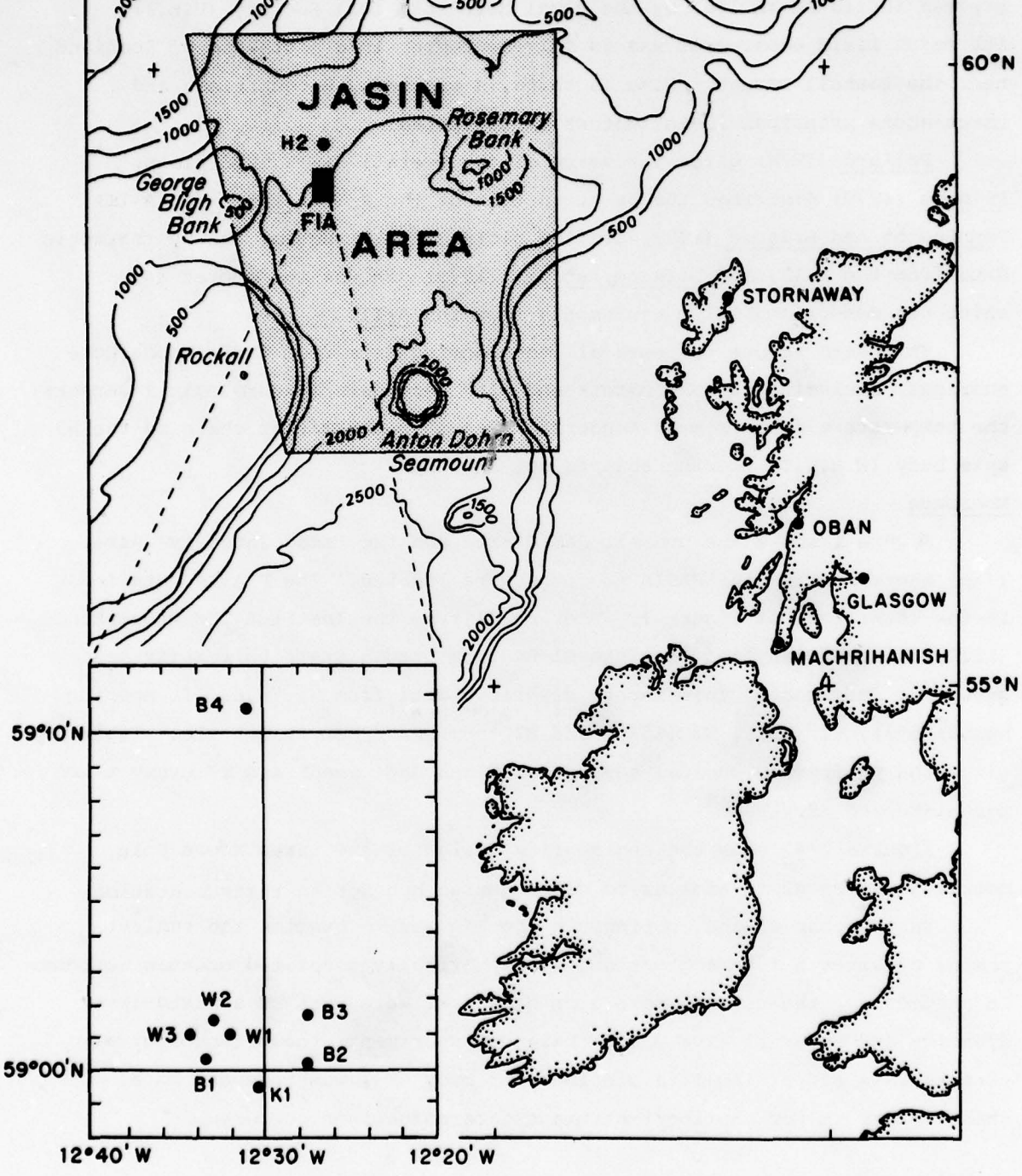


FIGURE 1: Chart of JASIN area.

Table 1a

MOORING NOMINAL POSITIONS AND DEPLOYMENT/RECOVERY TIMES

Mooring	Lat (°N)	Long (°W)	Deployed (1978)	Recovered (1978)
W1	59°01.1	12°32.0	29 July	7 Sept.
W2	59°01.5	12°33.0	30 July	6 Sept.
W3	59°01.1	12°34.3	31 July	6 Sept.
H2	59°25.0	12°30.0	16 July	3 Sept.
K1	58°59.8	12°30.6	9 July	6 Sept.
B1	59°00.4	12°33.6	1 Aug.	6 Sept.
B2	59°00.2	12°27.5	29 July	6 Sept.
B3	59°01.6	12°27.4	28 July	6 Sept.
B4	59°10.7	12°31.0	28 July	3 Sept.

Table 1b

MOORING NOMINAL SEPARATIONS (km)

	W1							
W2	1.2	W2						
W3	2.1	1.4	W3					
H2	44.3	43.6	44.4	H2				
K1	2.7	3.8	4.2	46.6	K1			
B1	2.0	2.1	1.4	45.6	3.0	B1		
B2	4.6	5.7	6.6	45.9	3.0	5.8	B2	
B3	4.4	5.3	6.6	43.4	4.5	6.3	2.5	B3
B4	17.8	17.1	18.0	26.5	20.1	19.2	19.7	17.1

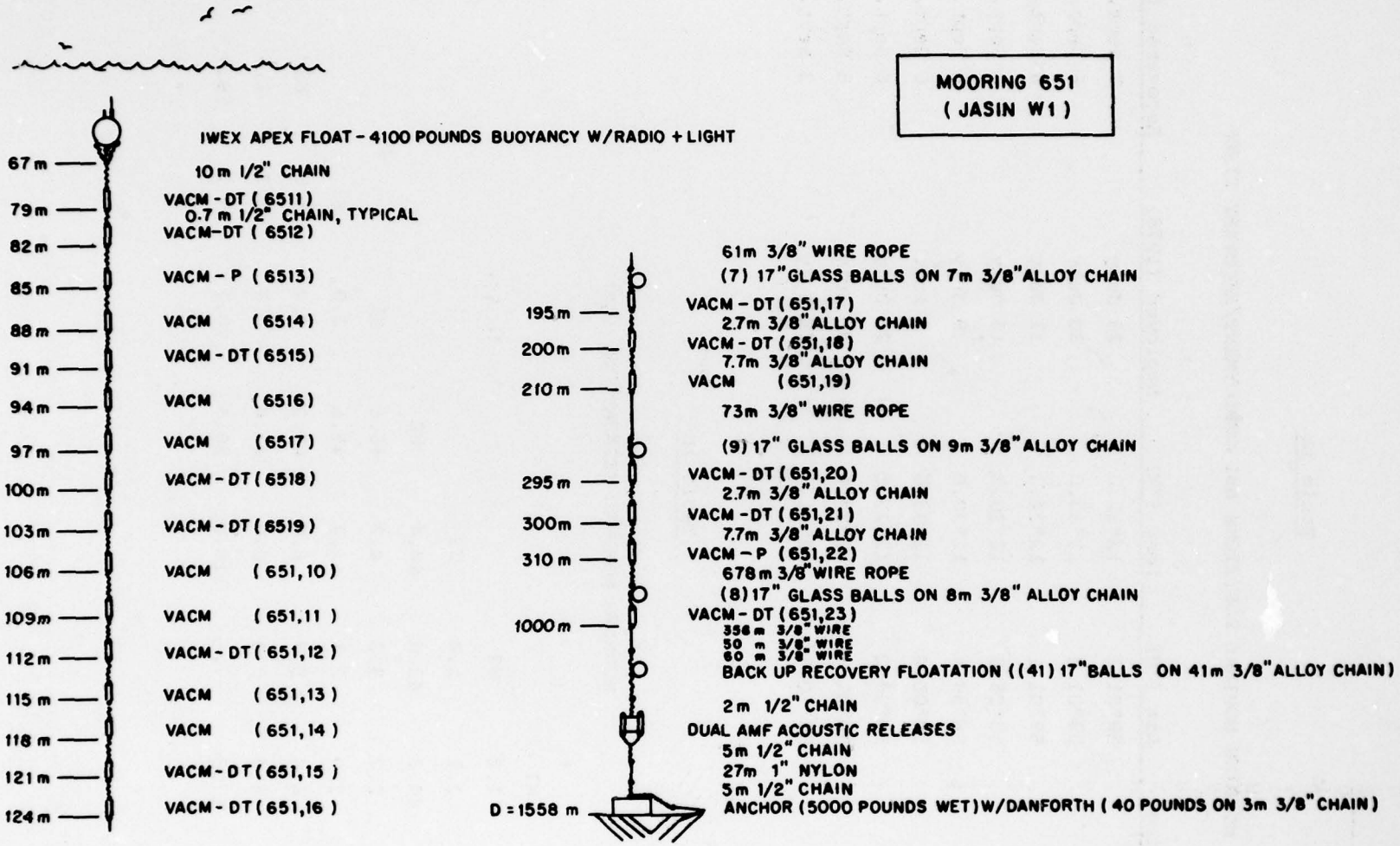
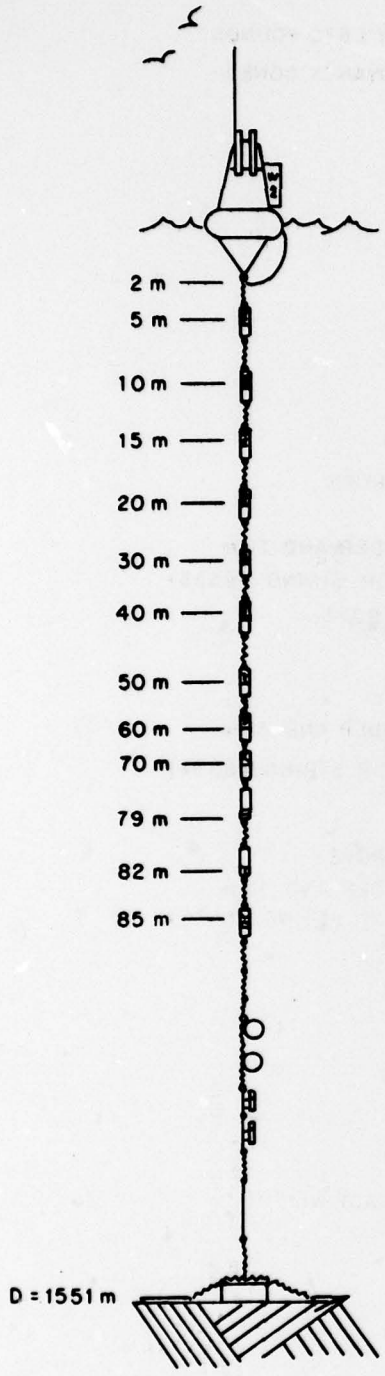


FIGURE 2: Mooring 651 (W1).



TOWER WITH VAWR (652OW), SIO VMWR (652OS), PYRANOMETER, LIGHT, ANTENNA AND WIND VANE
8' FILLED TOROID WITH RIGID BRIDLE AND TENSIOMETER

IWEX SWIVEL WITH 5m PLAITED POLYPRO TO BUOY
2.4 m 1/2" CHAIN
VMCM (6521)
2 m 1/2" CHAIN, TYPICAL
VMCM (6522)
VMCM (6523)
VMCM (6524)
7m 1/2" CHAIN, TYPICAL
VMCM (6525)
VMCM (6526)
VMCM (6527)
VMCM (6528)
VMCM (6529)
45m 1/2" CHAIN
VACM (652,10)
0.9m 1/2" CHAIN
ACM-1 (652,11)
1.8m 1/2" CHAIN
VMCM (652,12)

MOORING 652
(JASIN W2)

1280m 3/4" PLAITED NYLON (15,000 POUNDS RBS)
(280m, 500m, 500m)
BACKUP RECOVERY FLOATATION
(31) 17" GLASS BALLS ON 31m 3/8" CHAIN

WATTS-EVANS RECORDER (652,13)
AMF ACOUSTIC RELEASE
5m 1/2" CHAIN

20m 1" PLAITED NYLON (30,000 POUNDS RBS)

5m 1/2" CHAIN
ANCHOR (4000 POUNDS WET) W/2 DANFORTH (EACH 40 POUNDS ON 3m 3/8" CHAIN)

FIGURE 3: Mooring 652 (W2).

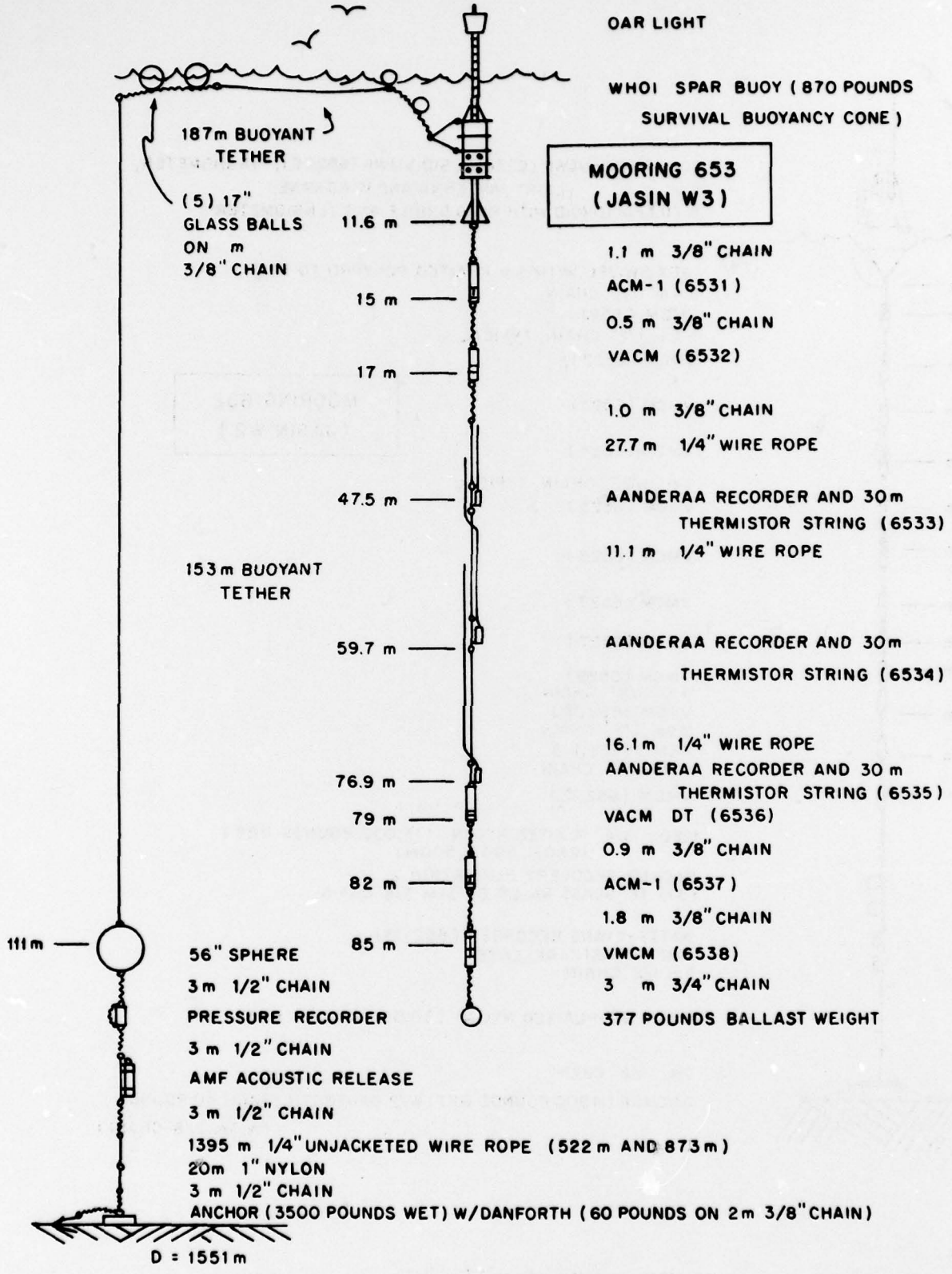


FIGURE 4: Mooring 653 (W3).

Instrumentation

The primary instruments in this data report are Vector Averaging Current Meters (VACM) and Vector Measuring Current Meters (VMCM). They differ mainly in their flow-sensing elements: the VACM uses a Savonius rotor and a vane to give speed and direction which are resolved against an internal compass to East and North components for vector averaging and recording on tape, whereas the VMCM uses orthogonal cosine-response propellers that sense directly the flow components which are then rotated relative to an internal compass to permit vector averaging and data recording.

Both instruments provide a continuous vector-average during a recording interval (112.5 s in the VACM, 120 s in the VMCM) by sampling 8(VACM) or 4(VMCM) times per rotation of the sensor; both cases correspond to sampling and vector-averaging at least several times per second.

Additional technical information on the VACM and its sensors may be found in Fofonoff and Ercan (1967), McCullough (1975), Payne et al. (1976), and Dean (1979). The VMCM is described in Weller and Davis (1979), and the Neil Brown Acoustic Current Meter (ACM) is briefly described in Lawson, et al. (1976). Intercomparisons of these instruments are given in Halpern, et al. (1979).

All three current meters record on Phillips-type magnetic tape cassettes that are removed ashore and transcribed to 9-track computer tapes for further processing as described below.

The VACM has a temperature sensor (a thermistor) embedded in its end-cap (just above the vane), and some of the VACMs carry in addition either a pressure sensor (VACM-P) or a pair of thermistors to give the vertical temperature gradient (VACM-DT); figures 2-4 show which instruments have these additions. Only the temperature and pressure sensors were specially calibrated for this experiment; the rotor and vane weights, sizes, and bearing clearances are simply kept within narrow specifications to permit the nominal calibrations (McCullough, 1975) to be used. The VMCMs and ACMs, partly because they are newer, less operational, instruments, were individually calibrated in tow tanks and flumes (Weller, and McCullough, personal communications).

Note that the temperature sensors in the VACM and the VACM-DT have different response times because the thermistor in the former is embedded in an end cap whereas in the latter it is in an external pod. This is discussed in Levine, Briscoe, and Dean (1979).

Pressure (depth) measurements were made on mooring 651/W1 at nominal depths of 85 m (approximately 85.7 dbar) and 310 m (313 dbar), and on mooring 653/W3 at a nominal depth of 15 m (15.1 dbar). The latter was recorded at 1 minute intervals, i.e. three times per 3 minute basic recording interval on the tape, which yields three pressure readings for each data cycle; because of their similarity, only the first reading of each cycle is displayed here except in the five-day statistics where all three readings are given.

The measurements show mean depths of approximately 87-94 dbar, 316-323 dbar, and 13-13.5 dbar, respectively. The differences between the measured and nominal (i.e., design) depths are due to accumulated errors in the mooring construction, uncertain knowledge of water depth (especially mooring 651/W1), and actual depth fluctuations caused by mooring response to currents. Also, the pressure sensor on 653/W3 is 1.3 m shallower than the speed sensor (which is used for the assignment of nominal depth.

The VAWR is a wind recorder and meteorological package (Payne, 1974) based on the VACM. Cups replace the Savonius rotor and additional sensors are multiplexed into the data stream, namely solar radiation, air temperature, sea temperature, and barometric pressure. The VMWR is a wind recorder based on the VMCM. The surface meteorology report by Briscoe, et al. (1979) gives additional information on the VAWR and VMWR measurements.

Data Quality and Timing

There were 23 VACMs on 651/W1, 1 on 652/W2, and 2 on 653/W3. There was 1 ACM on 652/W2, and 2 on 653/W3. There were 10 VMCMs on 652/W2. One VAWR and one VMWR were on the 652/W2 toroidal surface buoy as wind recorders, and two VMWR were installed sequentially on the H2 toroid as wind recorders.

Except as listed below, all these data were complete from deployment time to recovery time and were of high quality (i.e., no known problems of any kind, and fewer than 44 linearly interpolated points due to data tape or clock errors). The records that were less than complete, or of less than high quality, are described in Table 2.

The sampling rates, start and stop times, and number of data cycles in each available record are given in Table 3.

TABLE 2

INSTRUMENT PROBLEMS

Data Name	Instrument	Problem
6514	VACM	no data (power supply failure)
6516	VACM	350 interpolated points
651,11	VACM	no current data (loose compass card)
651,20	VACM-DT	no TDIF data (cabling error)
6520S	VMWR	record terminated 17 Aug/0930Z (sensor failure)
6521	VMCM	speeds only (Propellers wired backwards)
6524	VMCM	data noisy
6528	VMCM	no data (tape recorder failure)
652,11	ACM-1	no data (flooded; dirty O-ring)
6533	TR-1*	no data (tape fouled)
6534	TR-1*	record terminated 4 Sept/0440Z (tape ran out)
6535	TR-1*	no data (tape fouled)
6538	VMCM	no data (tape recorder failure)
H2S1	VMWR	record terminated 10 August/2230Z (sensor failure)
H2S2	VMWR	record started 26 August/1809Z (redeployment)

* Aanderaa Thermistor Chains; data not in this report.

TABLE 3

RECORD START/STOP TIMES

		Recording Interval	start[1]	stop[3]	no. pts.
W1/651 all		112.5s	29 July/2200Z	07 Sept/0700Z	30240
W2/652					
	6520W	15 min	30 July/1700Z	06 Sept/1008Z	3652
	6520S[3]	2 min	30 July/1430Z	17 Aug/0930Z	12810
	6521-6529; 652,12[3]	2 min	30 July/1800Z	06 Sept/1802Z	27361
	652 10	112.5S	30 July/1700Z	06 Sept/1800Z	29216
W3/653					
	6531,6537	3 min	31 July/1300Z	06 Sept/1300Z	17760
	6532,6536	112.5 sec	31 July/1300Z	06 Sept/1300Z	28416
	6534[4]	10 min	31 July/0940Z	04 Sept/0440Z	5155
H2					
	H2S1[3]	2 min	16 July/1630Z	10 Aug/2230Z	18180
	H2S2[3]	2 min	26 Aug/1809Z	01 Sept/2329Z	4480

Notes: (1) beginning of first recorded data cycle

(2) end of last recorded data cycle.

(3) Scripps instruments use beginning of each data cycle to specify the time of the cycle; W.H.O.I. uses mid-point of each cycle.

(4) time specified is the end of each averaging interval.

Data Processing

The Phillips-type cassettes (Sea-Data recorders in the VACM and VAWR, Memodyne recorders in the VMCM, VMWR, and ACM) were transcribed to 9-track computer compatible tapes, converted to scientific units, edited to remove launch and retrieval transients, and linearly interpolated across missing or erroneous data cycles.

W.H.O.I. data are identified by a mooring number (here, 651-653), a sequential instrument position numbered from the surface down (e.g., 6517 is the seventh instrument down on mooring 651), a letter to indicate the data version (e.g., 6517C is the third editing of 6517), and a number to indicate the recording interval for that data version (e.g., 657C112.5 is the basic data). 1H at the end indicates a one-hour averaged version, and a terminating A means more editing has been done after the averaging.

The wind data from 652 are designated 6520, with 6520W meaning the W.H.O.I. VAWR, and 6520S meaning the Scripps VMWR.

Data Presentation

The presentations in this report are time series, histograms, mean statistics, five-day statistics, progressive vector plots with scatter plots, and spectra. Additional details are below. The overall scheme of presentation is in terms of depth; with the surface meteorological data all put at the end; the fold-out table at the end of the report is an index to each data file and to the pages on which its various presentations will be found.

Time Series (pages 1-35)

Variables versus time and current vectors ("stick plots") versus time are presented. The former are based on 1-hour averaged series, the latter on 4-hour averages. The bottom of each page gives the data name, the depth, the mooring type, and the instrument serial number (e.g., DT-5104). Current variables are presented as speed and direction.

Histograms (pages 37-71)

Each variable is plotted as relative frequency of occurrence per unit cell width versus amplitude; the area under the histogram is 100 percent. The mean value is marked on the horizontal axis; on the histograms of the north component of current, read $\overline{6}$ as $\overline{N}$.

Mean Statistics (pages 72-80)

The statistics for each variable, for the time period shown (not quite the entire record; the length has been slightly shortened to enhance uniformity from mooring to mooring and instrument to instrument), are given. Also, the east and north covariance, correlation, and vector statistics are given.

The mean values for each variable are the same as those plotted in the histograms.

For reference, note that a Gaussian random variable would have a kurtosis of 3 and a skewness of zero.

Five-Day Statistics (pages 81-116)

As can be seen in the time series plots, the currents and temperatures were behaving qualitatively differently during various times in the experiment. Hence, the mean statistics discussed above may be too coarse a description. Here we present the basic statistics for sequential "five-day" intervals during the experiment. Table 4 gives the start and stop time, and/or duration, of each of the instruments; note that the instruments on each mooring are treated alike. The second through seventh "five-day" periods are analyzed uniformly for all three moorings.

Progressive Vectors and Scatter Plots (pages 117-150)

Based on one-hour averaged time series, the current vectors are placed tail-to-head so as to show the path that a perfect particle in a perfectly homogeneous fluid would have traveled. The plots are excellent for giving an idea of flow regimes and low frequency behavior. Midnight positions are marked with different symbols for different months, and each fifth midnight is annotated with the date.

The same data are plotted in a scatter plot in the corner of the same page.

Spectra (pages 151-180)

The horizontal kinetic energy (HKE) and (where available) the temperature, vertical temperature gradient (TDIF), and pressure records are displayed as spectra.

The horizontal kinetic energy spectrum is half the sum of the spectra of the east and north components; it has the advantage of not being tied to a particular coordinate system.

The HKE, temperature, TDIF, and pressure spectra have units of $(cm^2/sec^2)/cph$, $(°C)^2/cph$, $(mdeg\ C/m)^2/cph$, or $(dbar)^2/cph$, respectively. The spectra are all one-sided, i.e. the area under the spectrum is equal to the variance of the original record. The plots are all log-log hence are not "variance preserving", i.e. the contributions of various frequency bands to the total variance are not in proportion to the displayed areas.

The spectra are all calculated based on averaging across two or three data segments of 8000 points each, following by frequency-band averaging across 3 frequencies. This gives a lowest frequency of $(83.3h)^{-1}$ for the 112.5 s VACMs, $(88.9h)^{-1}$ for the 120 s VMCMs, and $(133.3h)^{-1}$ for the 180 s ACMs. The highest frequencies present in the spectra are 5.3 cph, 5 cph, and 3.3 cph, respectively. No data-windowing or prewhitening is done.

TIMSAN, the W.H.O.I. program (Hunt, 1978) used to produce the spectra, additionally averages the spectra in increasing groups at the higher frequencies to prevent having to plot thousands of points; this gives few degrees of freedom (d.o.f.) at the lowest frequencies, many at the highest frequencies. For the spectra calculated from 3 pieces with 3 frequencies averaged (most of the spectra), there are 18 d.o.f. in the 40 lowest frequencies and 9000 d.o.f. in the two highest frequencies; the 95% confidence limits corresponding to these two extremes are (0.57, 2.19) and (0.97, 1.03). For reference, at 1 cph there are 90 d.o.f., hence confidence limits of (0.76, 1.37).

Meteorological Data (pages 181-199)

All the meteorological data, including observations from the Atlantis-II and intercomparisons between data sets, are given in more detail in Briscoe, et al. (1979).

Here, the observations are given as:

Time Series	pages 181-184
Histograms	pages 185-189
Mean Statistics	pages 190-191
Five-Day statistics	pages 192-194
Provecs and Scatter Plots	pages 195-196
Spectra	pages 197-199

All the displays are as described above except that the units of wind speed are m/s or cm/s depending on the display, of barometric pressure

are millibars, and of solar radiation are calories/cm^2 or watt-hours/m^2, depending on the display; the conversion is 1 w-h/m^2 = 0.086 cal/cm^2. The winds are all in oceanographic convention, i.e. as the direction to which the wind is blowing.

The spectra have less statistical significance than those presented earlier.

Note that buoy 652/W2 carried two meteorological packages, designated 6520W and 6520S; they started together but 6520S stopped about half-way through the experiment. Buoy H2 carried two instruments but not at the same time: H2S1 was the first setting, followed by a gap, then H2S2. Table 3 gives the exact start-stop times of all these wind sensors, and Table 5 gives the time periods used for the five-day statistics.

Table 4a

651 (JASIN W1) STATISTICS PERIODS

Period	Start Time	Stop Time	Duration
1	00Z/30 July	2359Z/03 Aug.	5^d
2	00Z/04 Aug.	2359Z/08 Aug.	5^d
3	00Z/09 Aug.	2359Z/13 Aug.	5^d
4	00Z/14 Aug.	2359Z/18 Aug.	5^d
5	00Z/19 Aug.	2359Z/23 Aug.	5^d
6	00Z/24 Aug.	2359Z/28 Aug.	5^d
7	00Z/29 Aug.	2359Z/02 Sept.	5^d
8	00Z/03 Sept.	0659Z/07 Sept.	$4^d 7^h$

Table 4b

STATISTICS PERIODS FOR OTHER MOORINGS

	652 (W2)		653 (W3)		
Period	VACM	VMCM	VACM	ACM	Notes
1	$4^d 7^h$	$4^d 6^h$	$3^d 10^h$	$3^d 10^h$	late starts
2-7	5^d	5^d	5^d	5^d	as in Table 4a
8	$3^d 18^h$	$3^d 18^h$	$3^d 13^h$	$3^d 13^h$	early finishes

Table 5

STATISTICS PERIODS FOR WINDS

	652(W2)		JASIN H2	
Period	6520WD	6520S	H2S1**	H2S2
1-2	5^d	5^d	5^d	N.D.
3	5^d	5^d	$1^d 22.5^h$	N.D.
4	5^d	$3^d 9.5^h$	N.D.	N.D.
5	5^d	N.D.*	N.D.	N.D.
6	5^d	N.D.	N.D.	$2^d 6^h$
7	5^d	N.D.	N.D.	$3^d 23.5^h$
8	$3^d 18^h$	N.D.	N.D.	N.D.

* No Data

** H2S1 starts on 78-VII-16, 16.30.00; statistics for overall record are given on p. 191.

COMPOSITE PLOTS

Four composite plots are given here. Representative records from 5 to 1000 m (the water was 1500 m deep) are plotted on the same vertical scale to give an idea of how the currents and temperatures change with depth. The 5 to 70 m records are from VMCMs on 652/W2; the deeper records are all from 651/W1. The four plots are of speed, north component, east component, and temperature (on two pages, all W1 instruments).

For purposes of filling out these composites, 6513 and 6515 have been vector averaged to give an interpolated fake 6514 at 88 m, and 651,10 and 651,12 have been vector averaged to give a 651,11 fake instrument at 109 m; see Table 2.

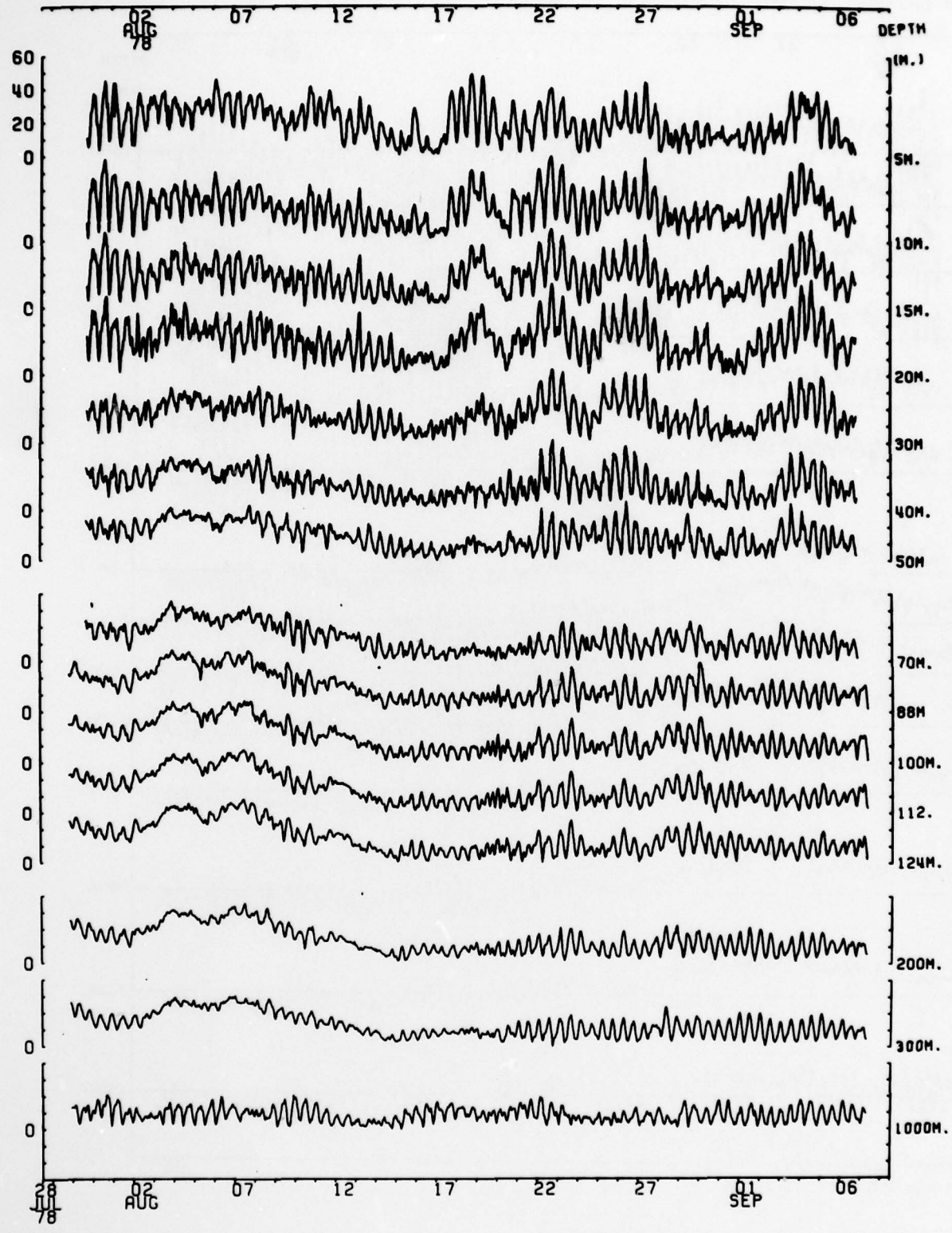


FIGURE 5: Composite plot of speed.

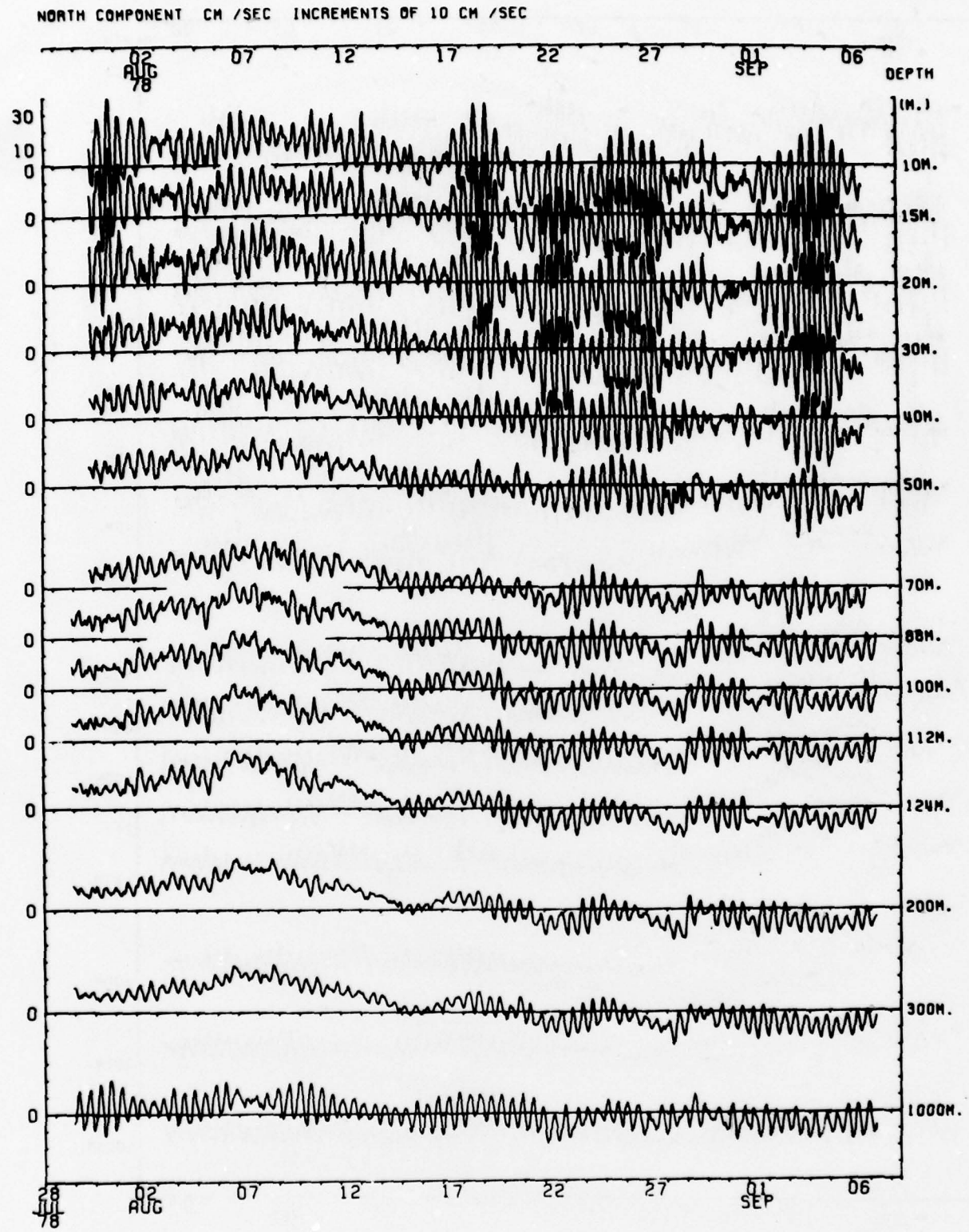


FIGURE 6: Composite plot of North current.

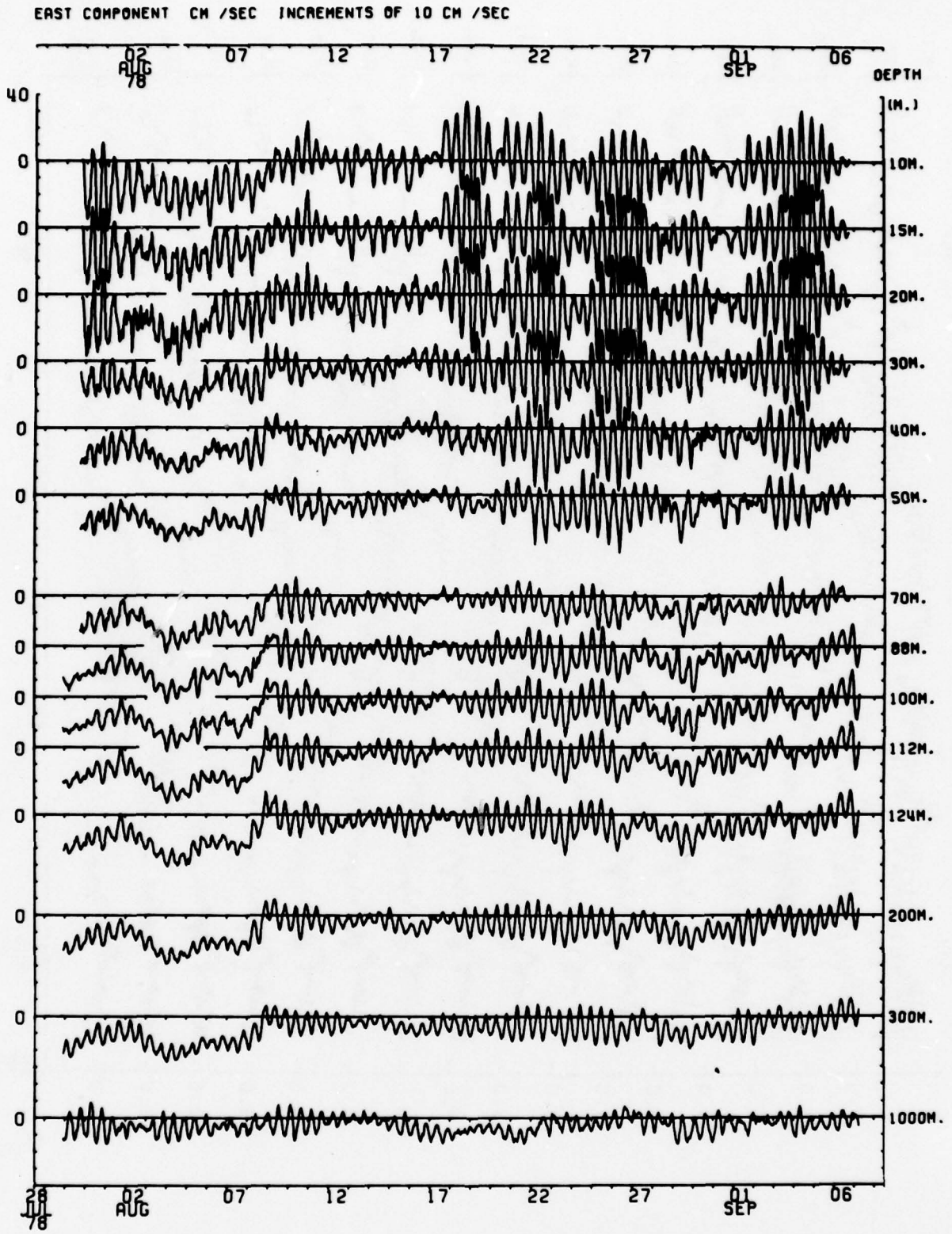
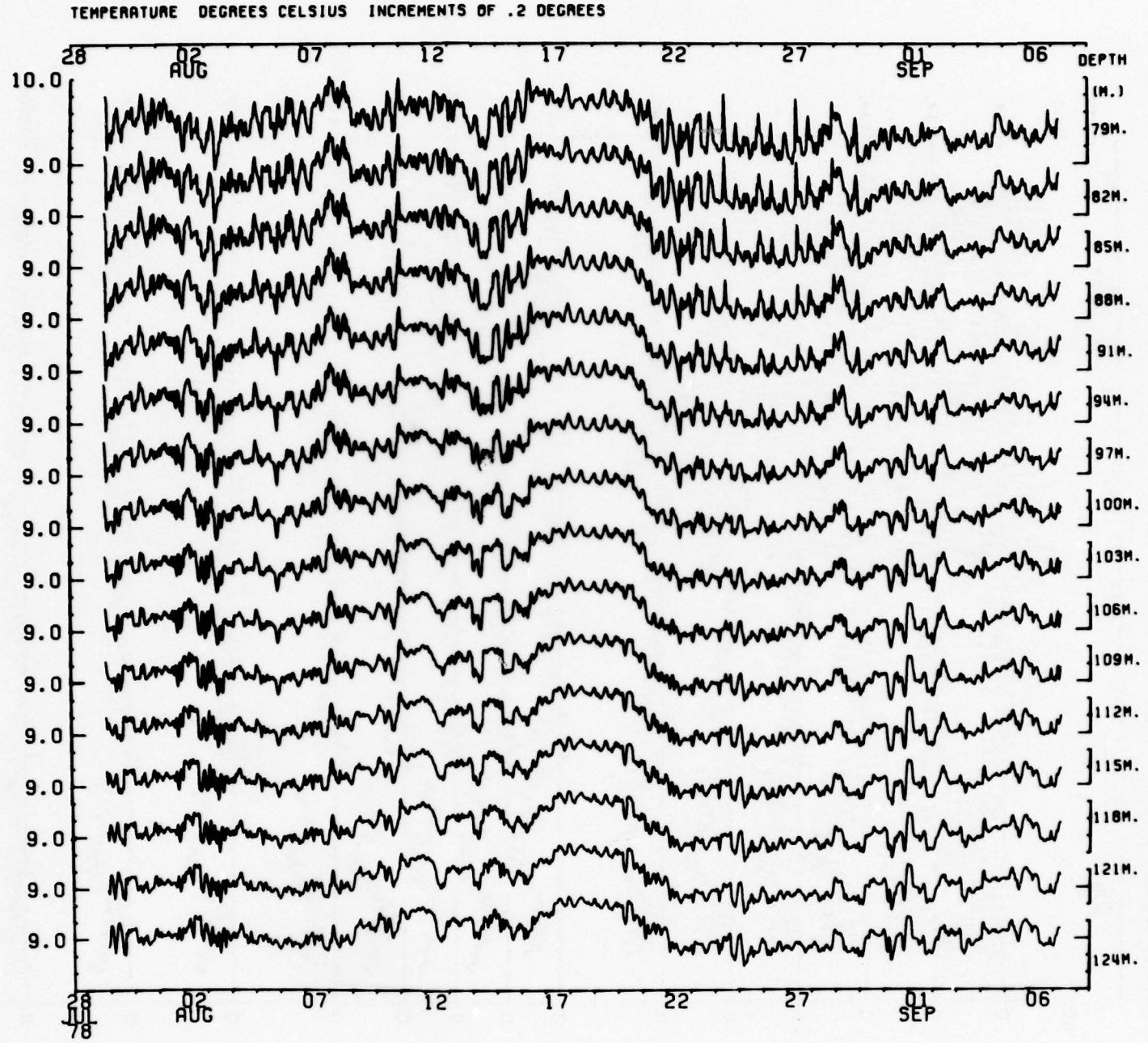


FIGURE 7: Composite plot of East current.


TEMPERATURE DEGREES CELSIUS INCREMENTS OF .2 DEGREES
28 AUG 02 07 12 17 22 27 01 SEP 06
DEPTH (M.)
10.0
9.0
79M.
82M.
85M.
88M.
91M.
94M.
97M.
100M.
103M.
106M.
109M.
112M.
115M.
118M.
121M.
124M.
28 JUL 78
28 AUG 02 07 12 17 22 27 01 SEP 06

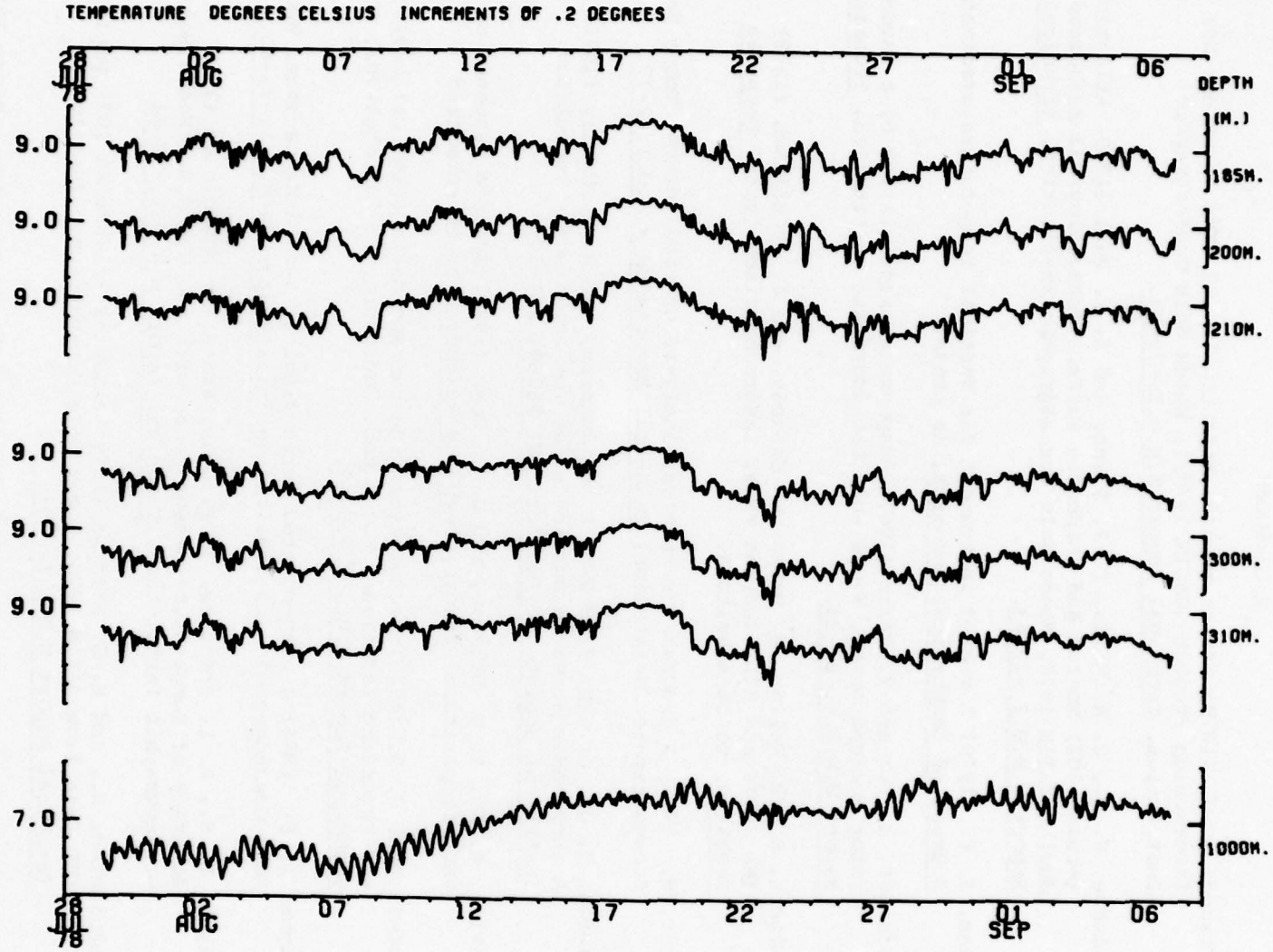


FIGURE 8: Composite plot of temperature.

REFERENCES

Briscoe, M. G. (1979) Cruise report, Atlantis-II 102 [The Joint Air-Sea Interaction Project (JASIN 1978)], Woods Hole Oceanographic Institution, Technical Report W.H.O.I.-79-64.

Briscoe, M. G., C. A. Mills, R. E. Payne, and K. R. Peal (1979) Atlantis-II (cruise 102) moored and shipborne surface meteorological measurements during JASIN 1978, Woods Hole Oceanographic Institution, Technical Report W.H.O.I.-79-43.

Dean, J. P. (1979) A moored instrument for vertical temperature gradients, Journal of Geophysical Research, in press.

Fofonoff, N. P., and Y. Ercan (1967) Response characteristics of a Savonius rotor current meter, Woods Hole Oceanographic Institution, Technical Report W.H.O.I.-67-33.

Halpern, D., R. Weller, R. Davis, M. Briscoe, and J. McCullough (1979) The JASIN and MILE current meter intercomparison tests, Deep-Sea Research, to be submitted.

Hunt, M. (1977) A program for spectral analysis of time series, Woods Hole Oceanographic Institution, Technical Memorandum W.H.O.I.-2-77.

Lawson, K. D., Jr., N. B. Brown, D. H. Johnson, and R. A. Mattey (1976) A three-axis acoustic current meter for small-scale turbulence, Instrument Society of America, ASI 76269, 501-508.

Levine, M. D., M. G. Briscoe, and J. P. Dean (1979) Dynamic response of VACM temperature sensors, Deep-Sea Research, to be submitted

McCullough, J. R. (1975) Vector-averaging current meter speed calibration and recording technique, Woods Hole Oceanographic Institution, Technical Report W.H.O.I.-75-44.

Payne, R. E. (1974) A buoy-mounted meteorological recording package, Woods Hole Oceanographic Institution, Technical Report W.H.O.I.-74-40.

Payne, R. E., A. L. Bradshaw, J. P. Dean, and K. E. Schleicher (1976) Accuracy of temperature measurements with the V.A.C.M., Woods Hole Oceanographic Institution, Technical Report W.H.O.I.-76-94.

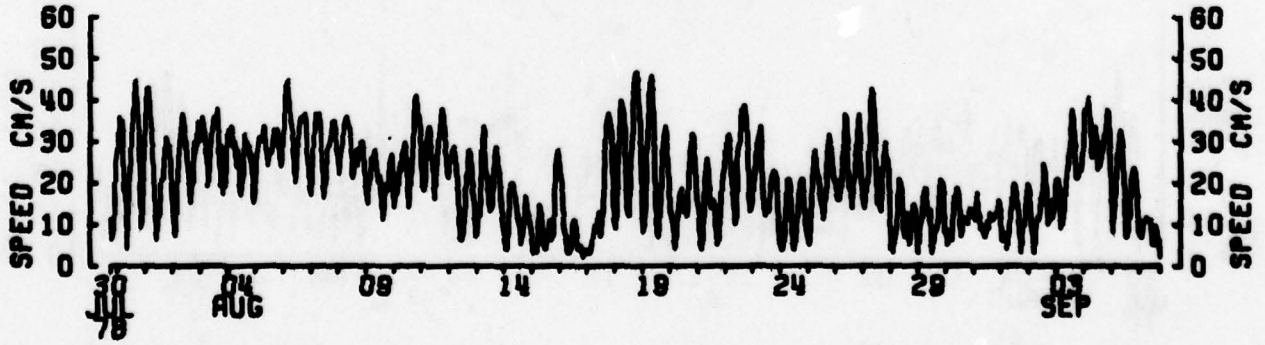
Pennington, N., and M. G. Briscoe (1979) Atlantis-II (cruise 102) preliminary CTD data from JASIN 1978, Woods Hole Oceanographic Institution, Technical Report W.H.O.I.-79-42.

Pollard, R. T. (1978) The Joint Air-Sea Interaction Experiment-JASIN 1978, Bulletin of the American Meteorological Society, 59 (10), 1310-1318.

Weller, R. A., and R. E. Davis (1979) A Vector Measuring Current Meter, Deep-Sea Research, submitted.

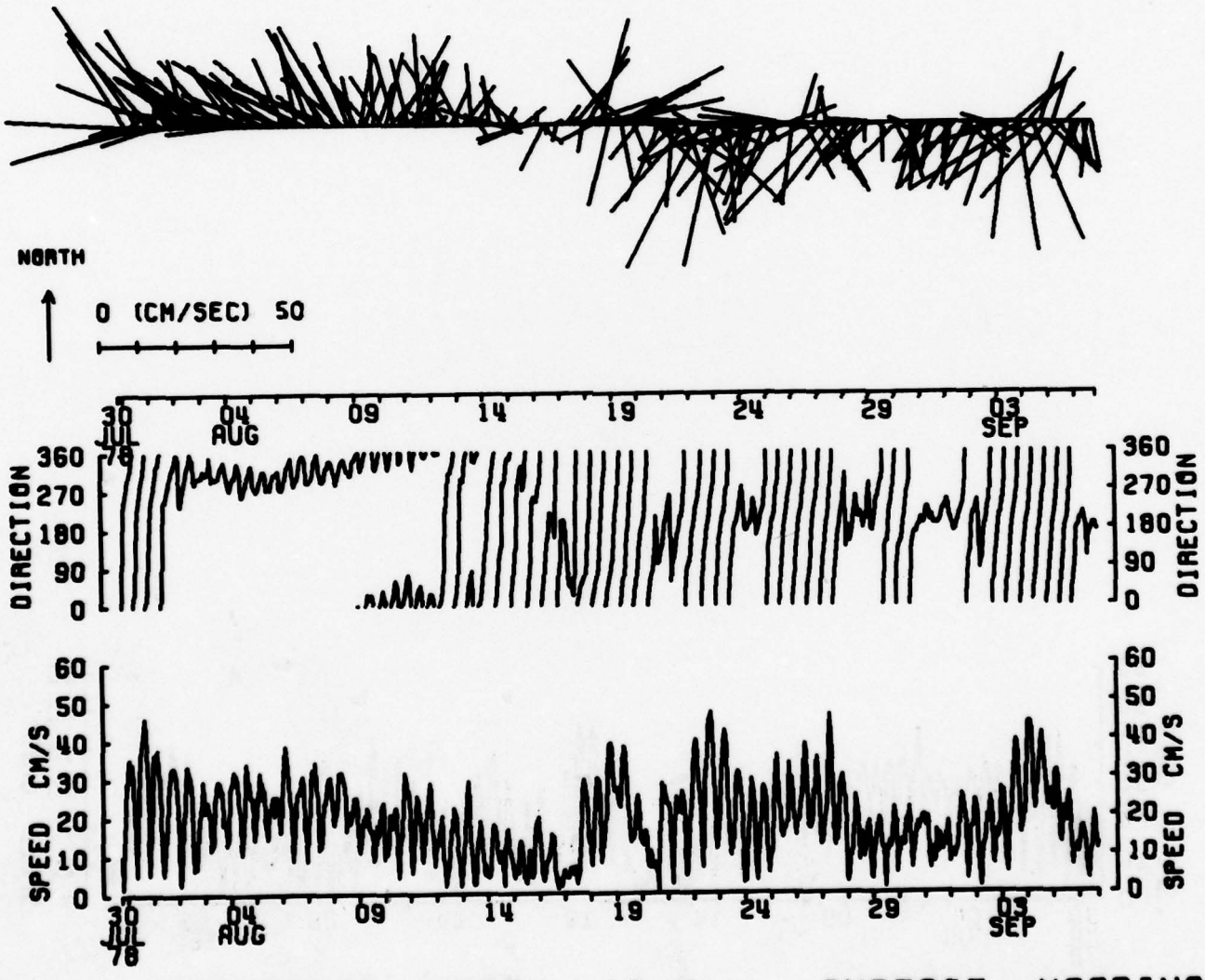
DATA

PRESENTATIONS



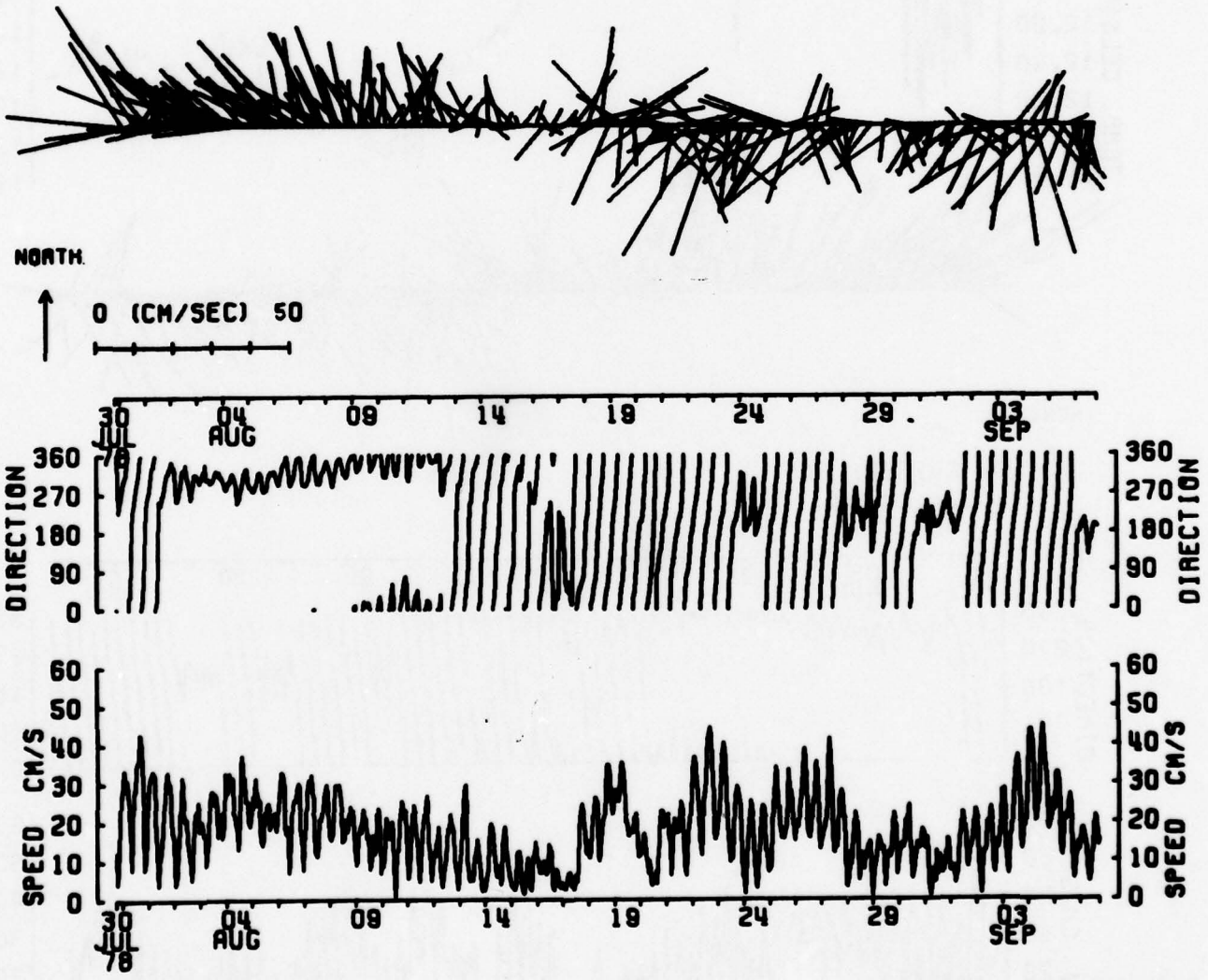
DATA 6521B DEPTH 5 M. SURFACE MOORING
VMCM-10

Preceding Page Blank - NO FILMED



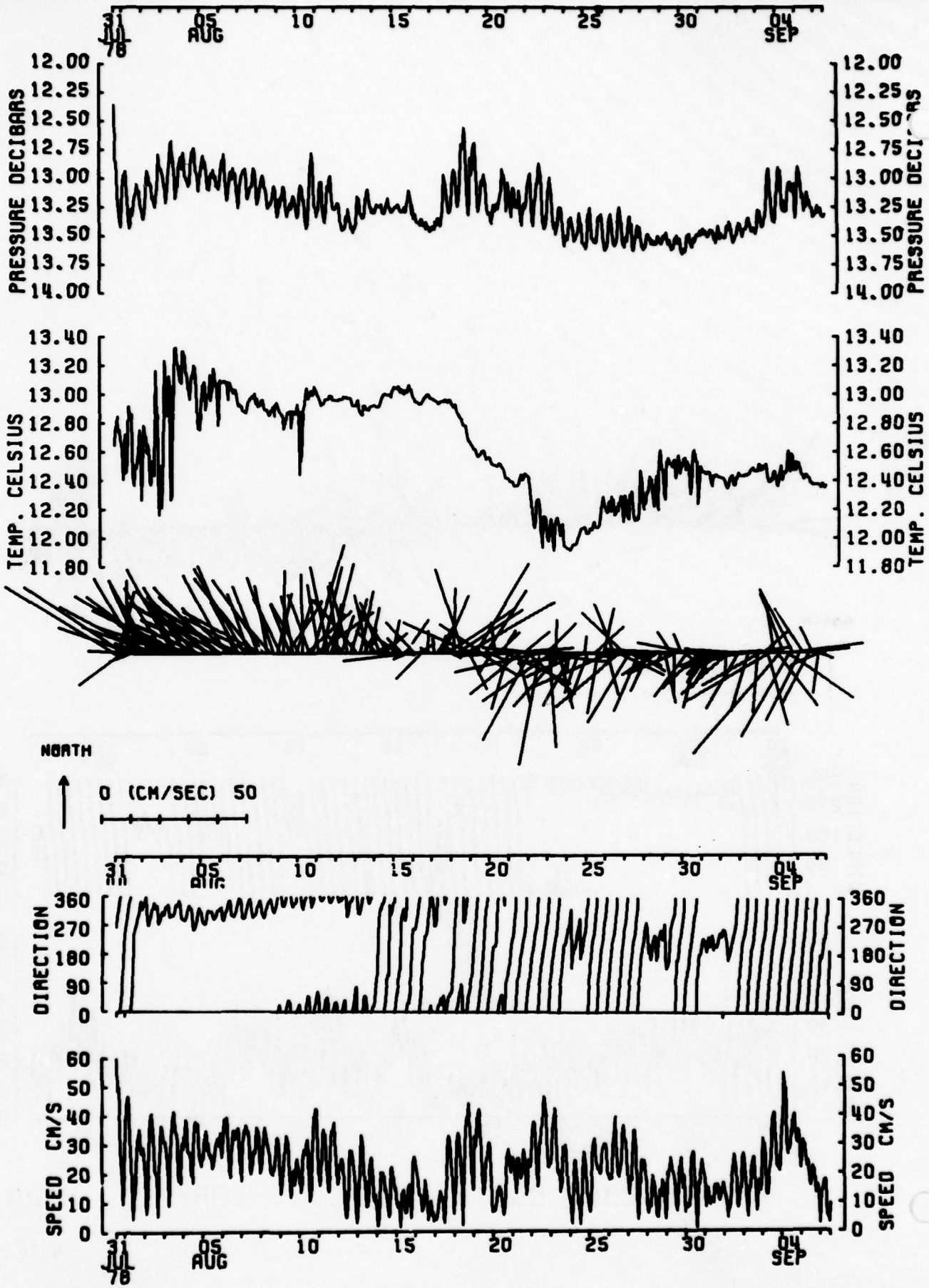
DATA 6522B DEPTH 10 M. SURFACE MOORING

VMCM-1



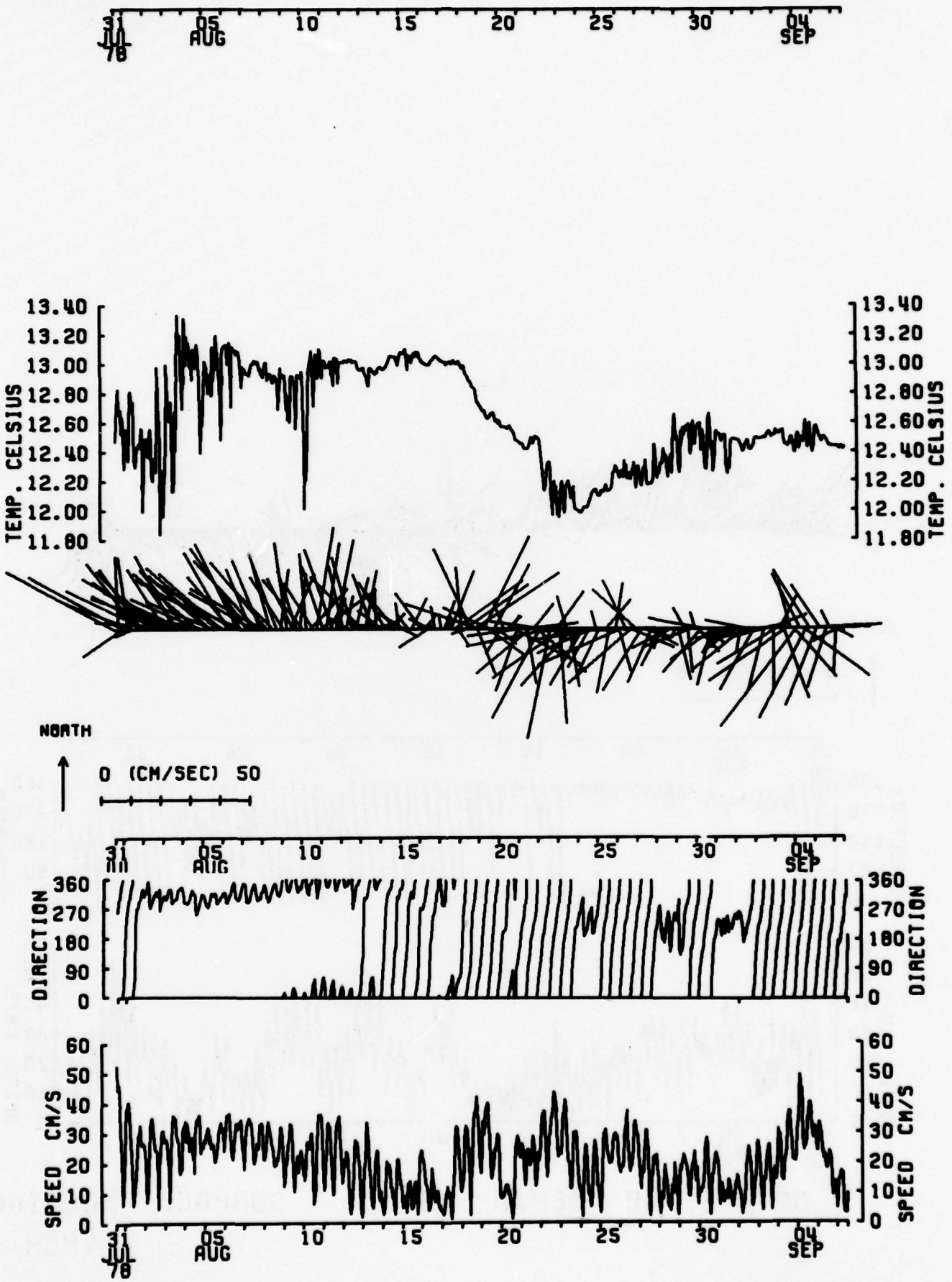
DATA 6523B DEPTH 15 M. SURFACE MOORING

VMCM-4

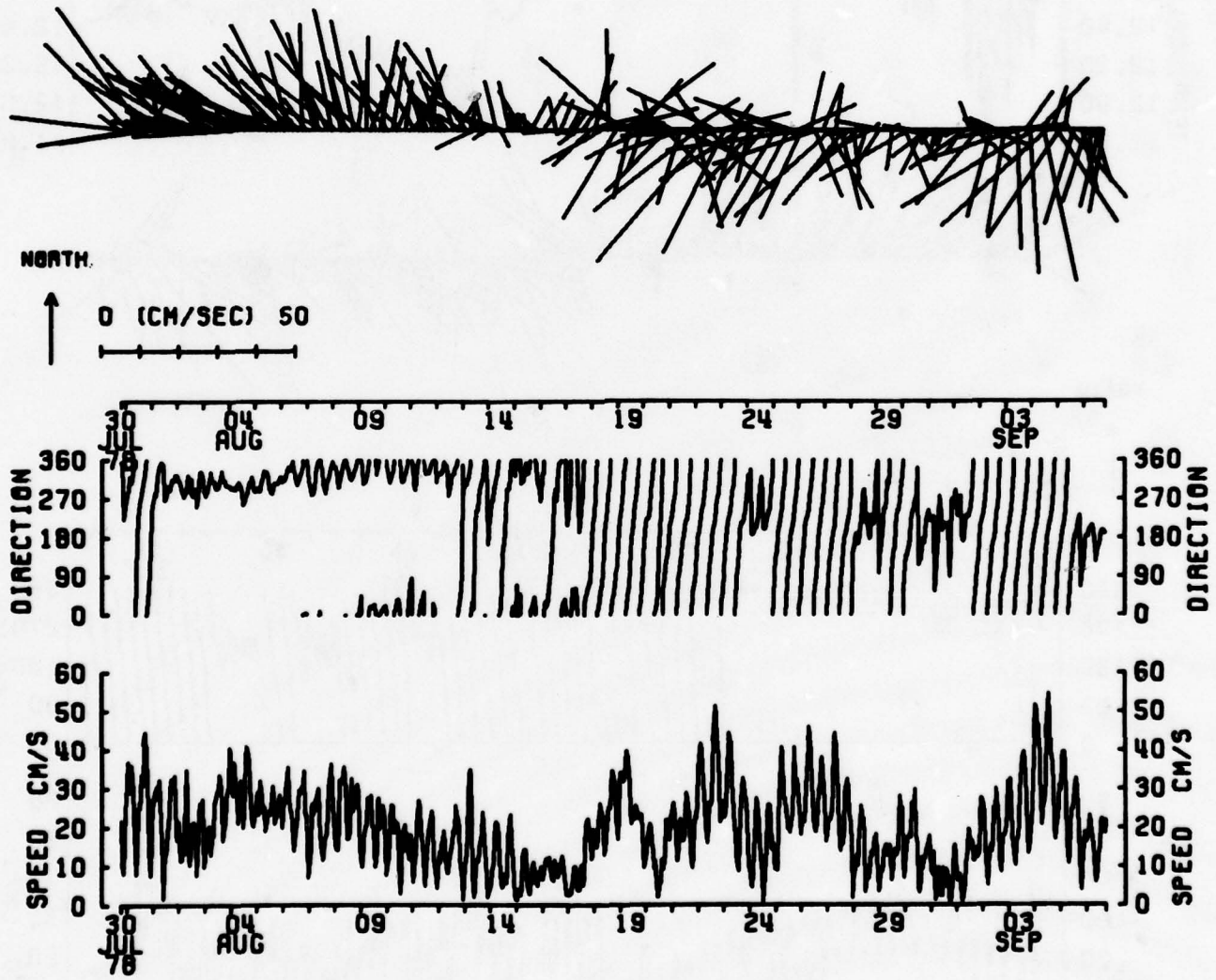


DATA 65310 DEPTH 15M. SPAR MOORING

ACM-1

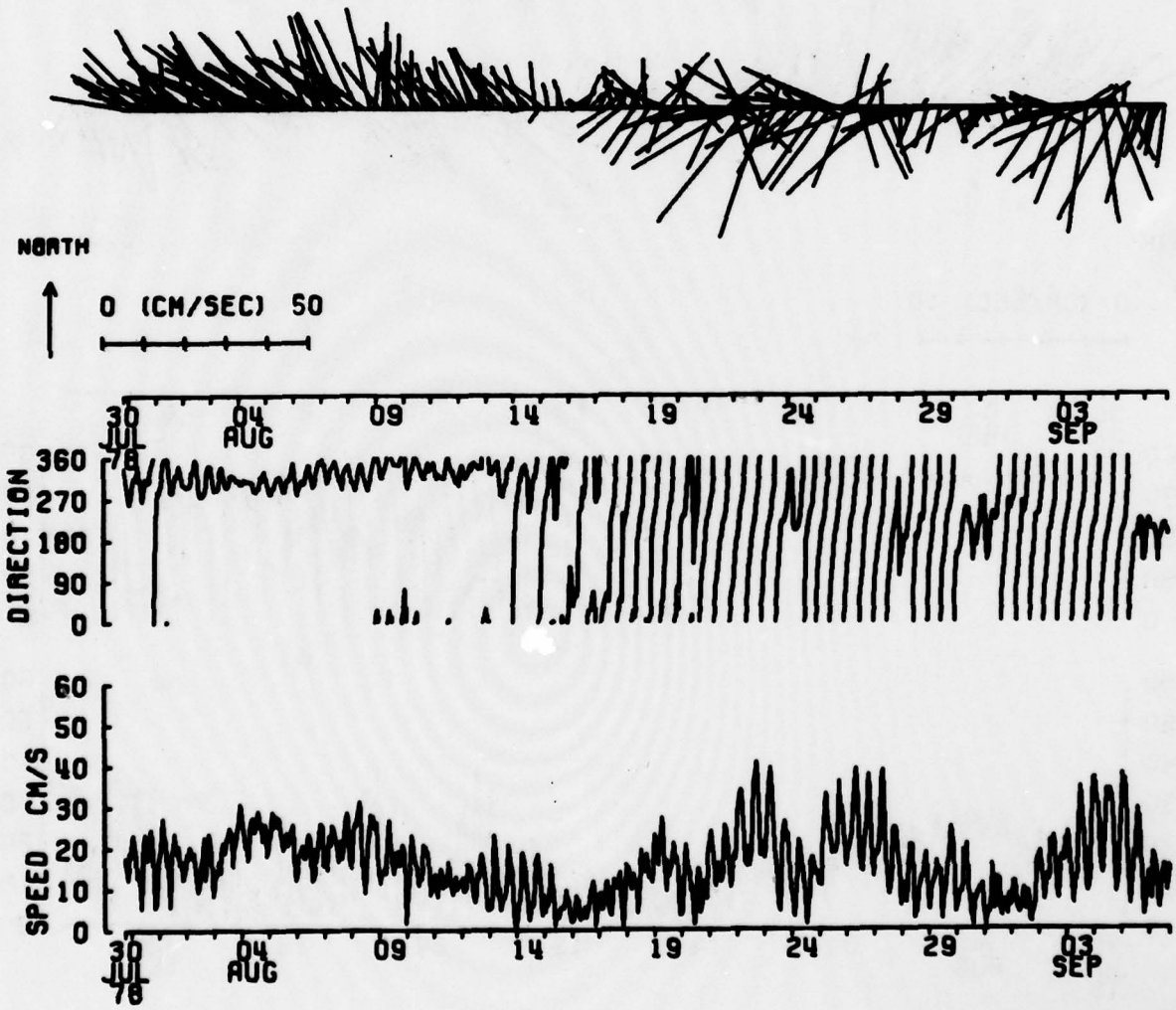


DATA 6532B DEPTH 17M. SPAR MOORING
V-433

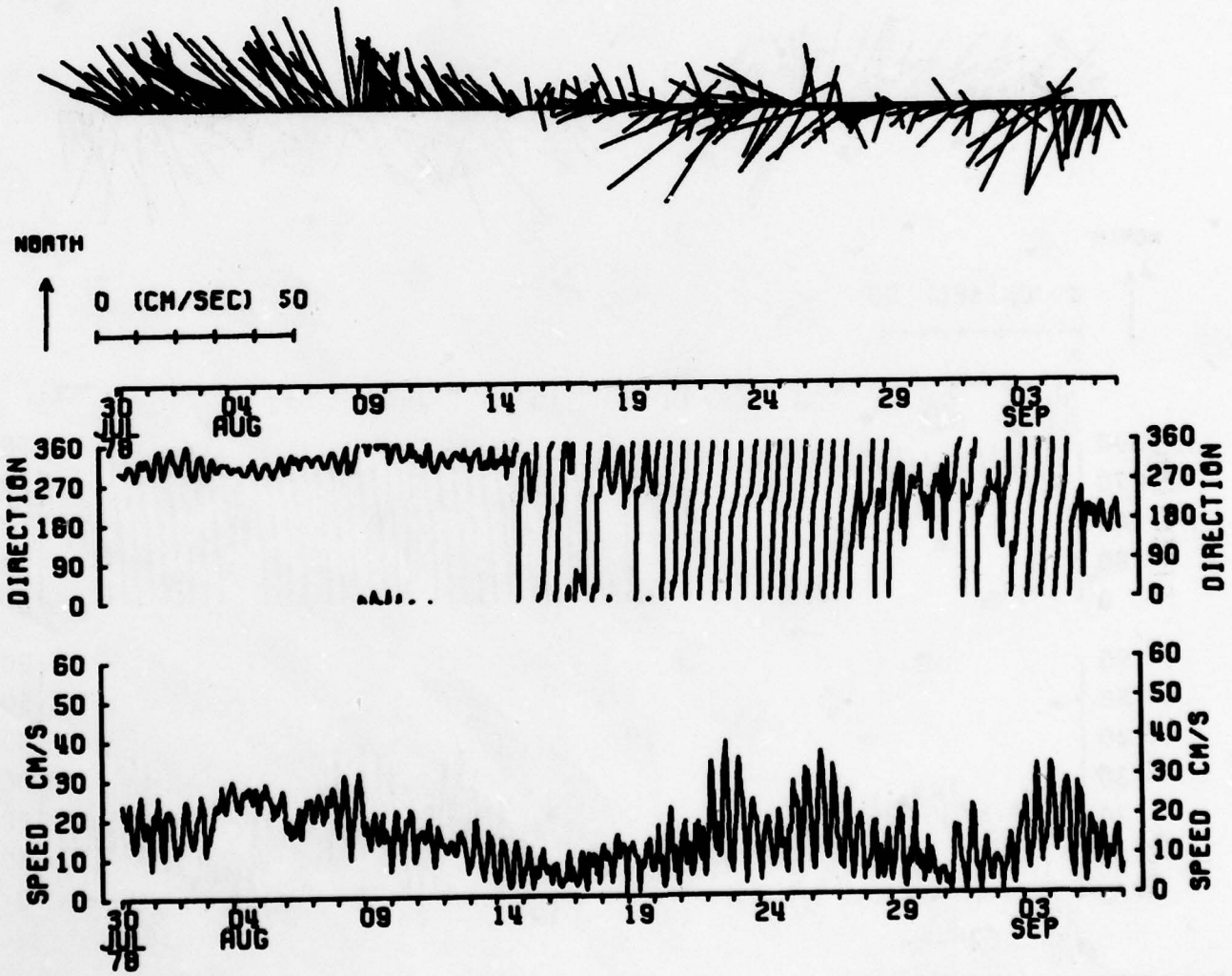


DATA 6524B DEPTH 20 M. SURFACE MOORING

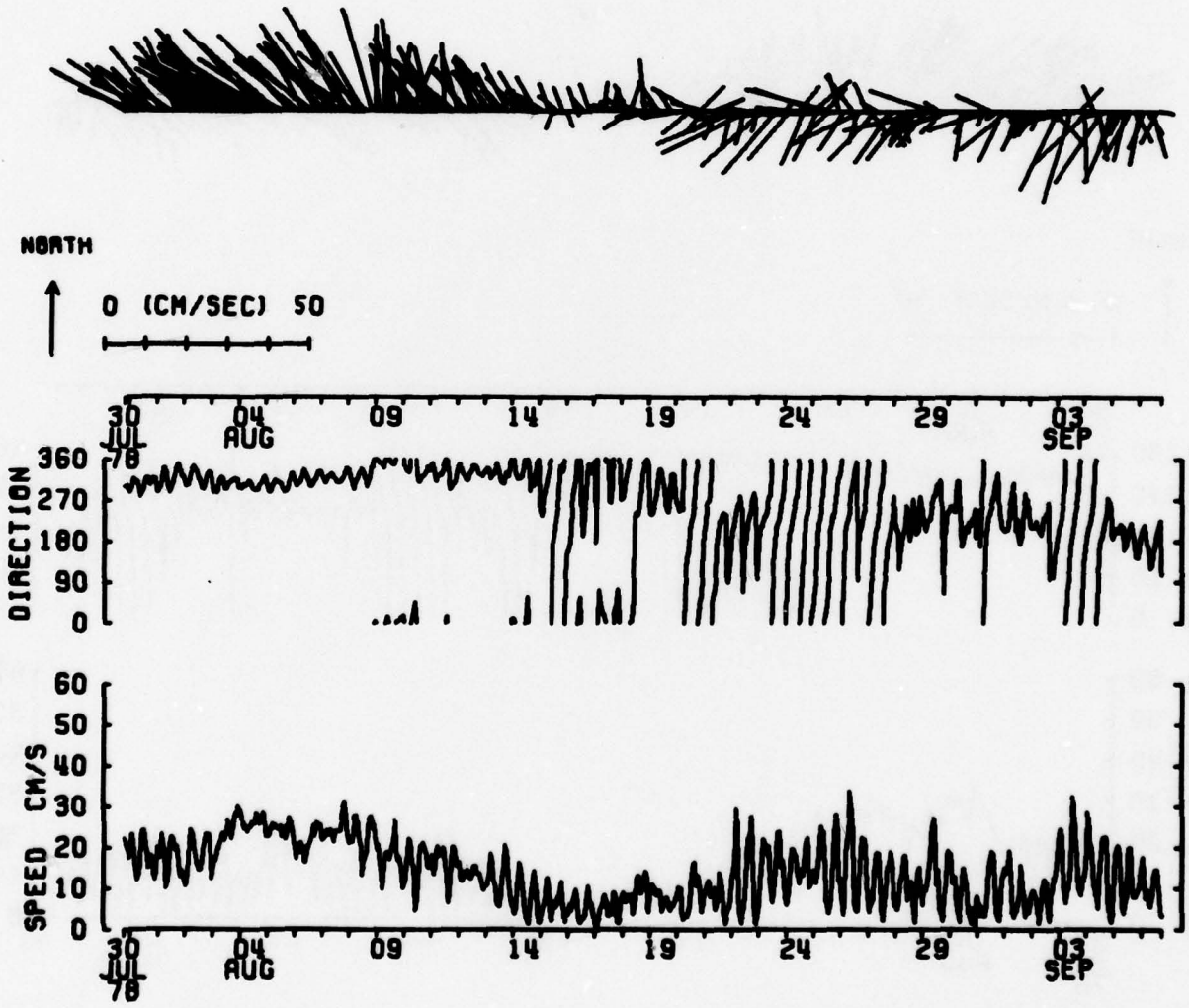
VMCM-3



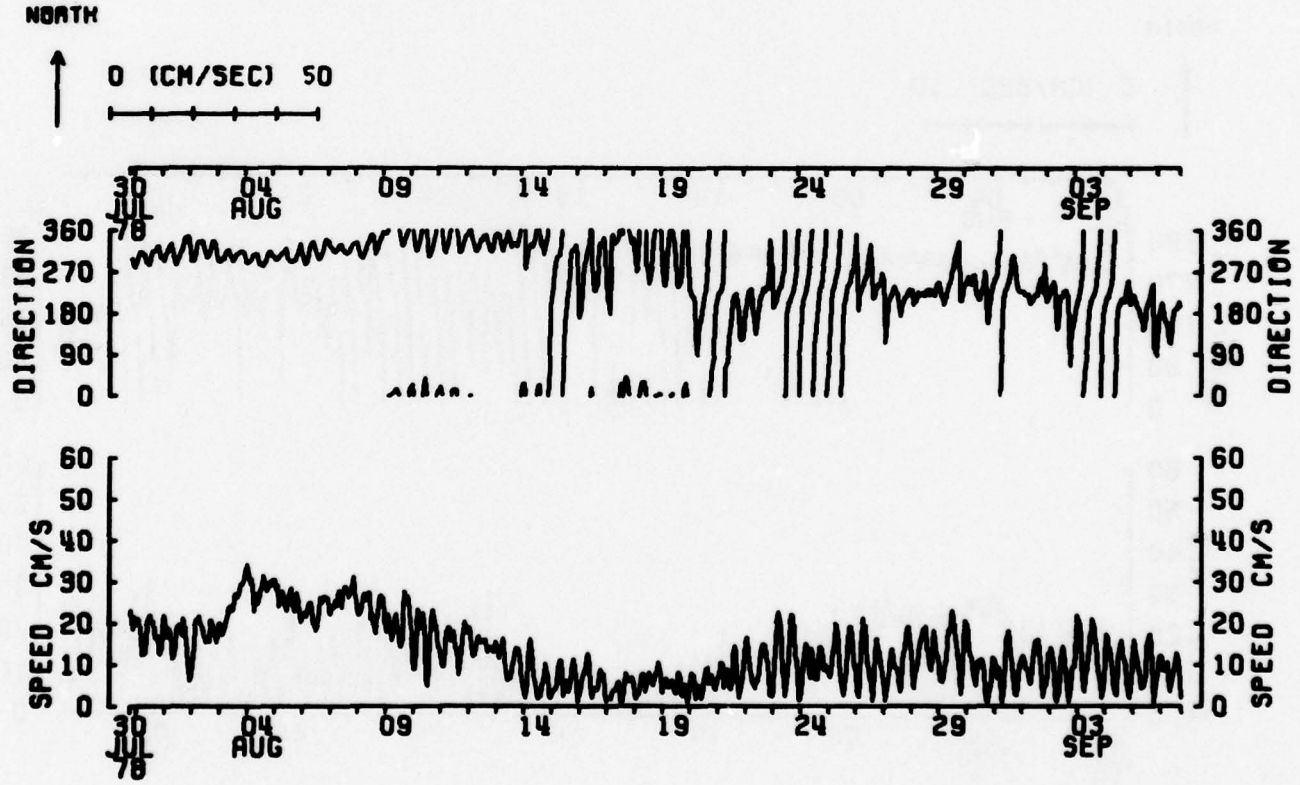
DATA 6525B DEPTH 30 M. SURFACE MOORING
VMCM-8



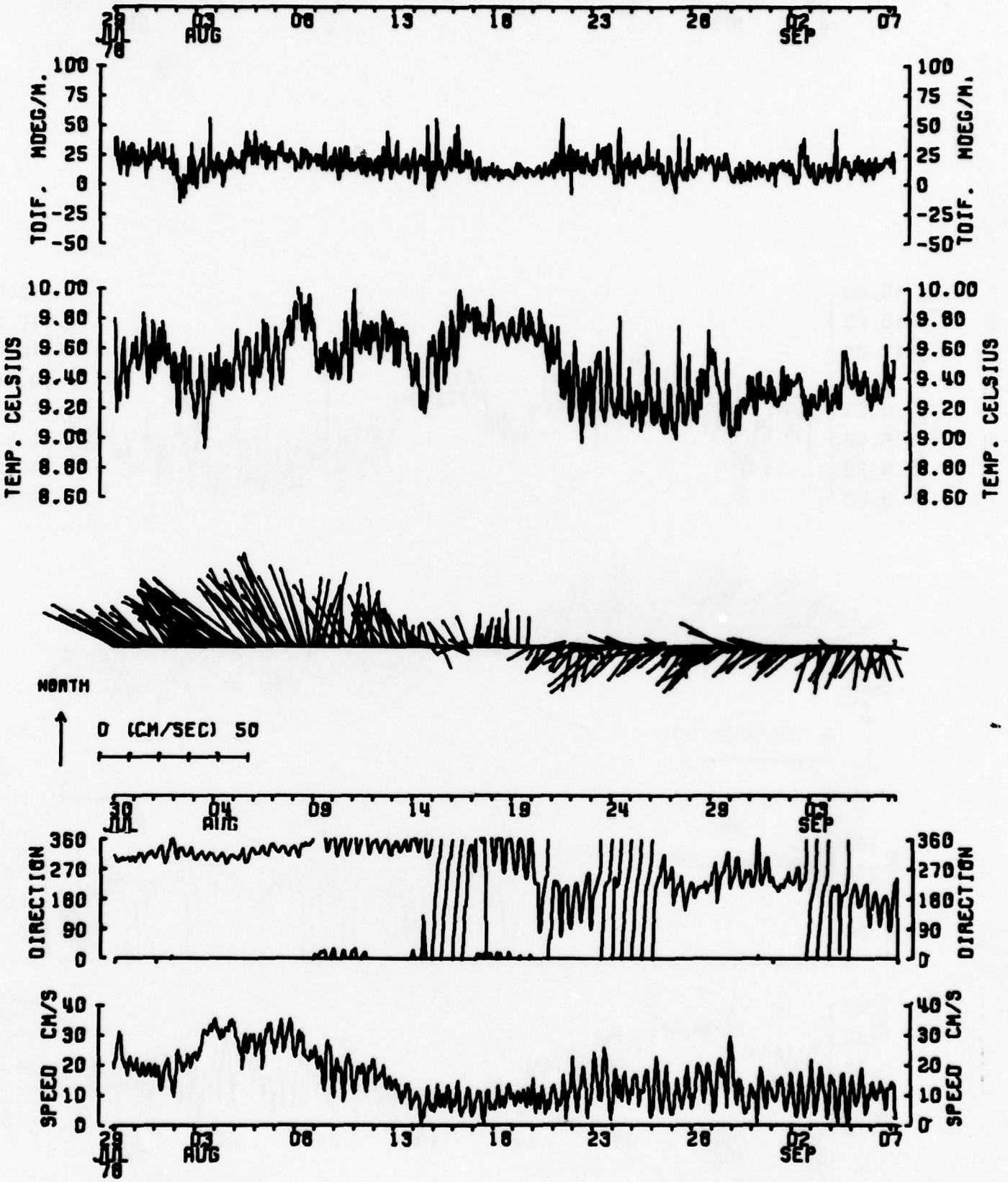
DATA 6526B DEPTH 40 M. SURFACE MOORING
VMCM 6



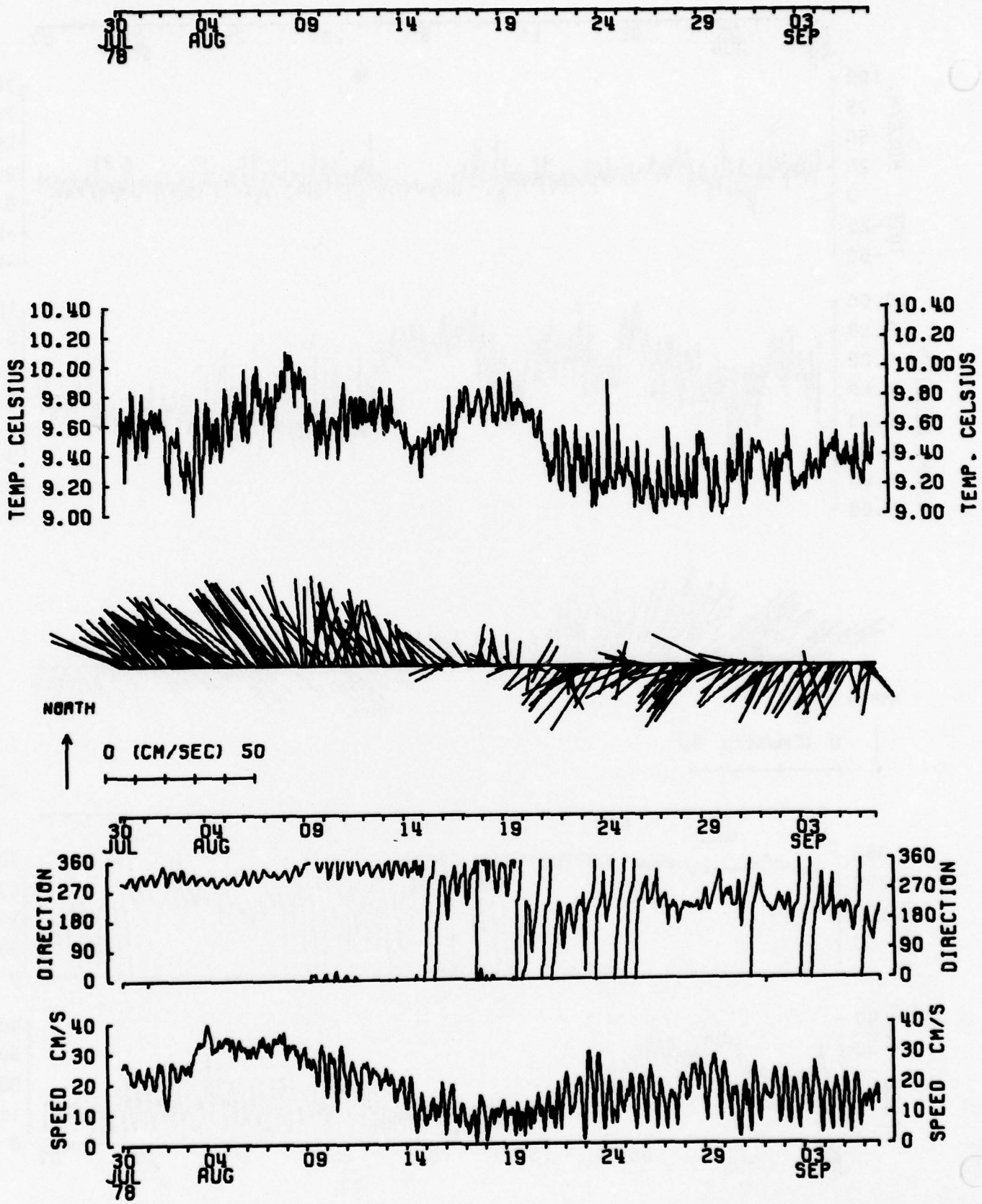
DATA 6527B DEPTH 50 M. SURFACE MOORING
VMCM-7



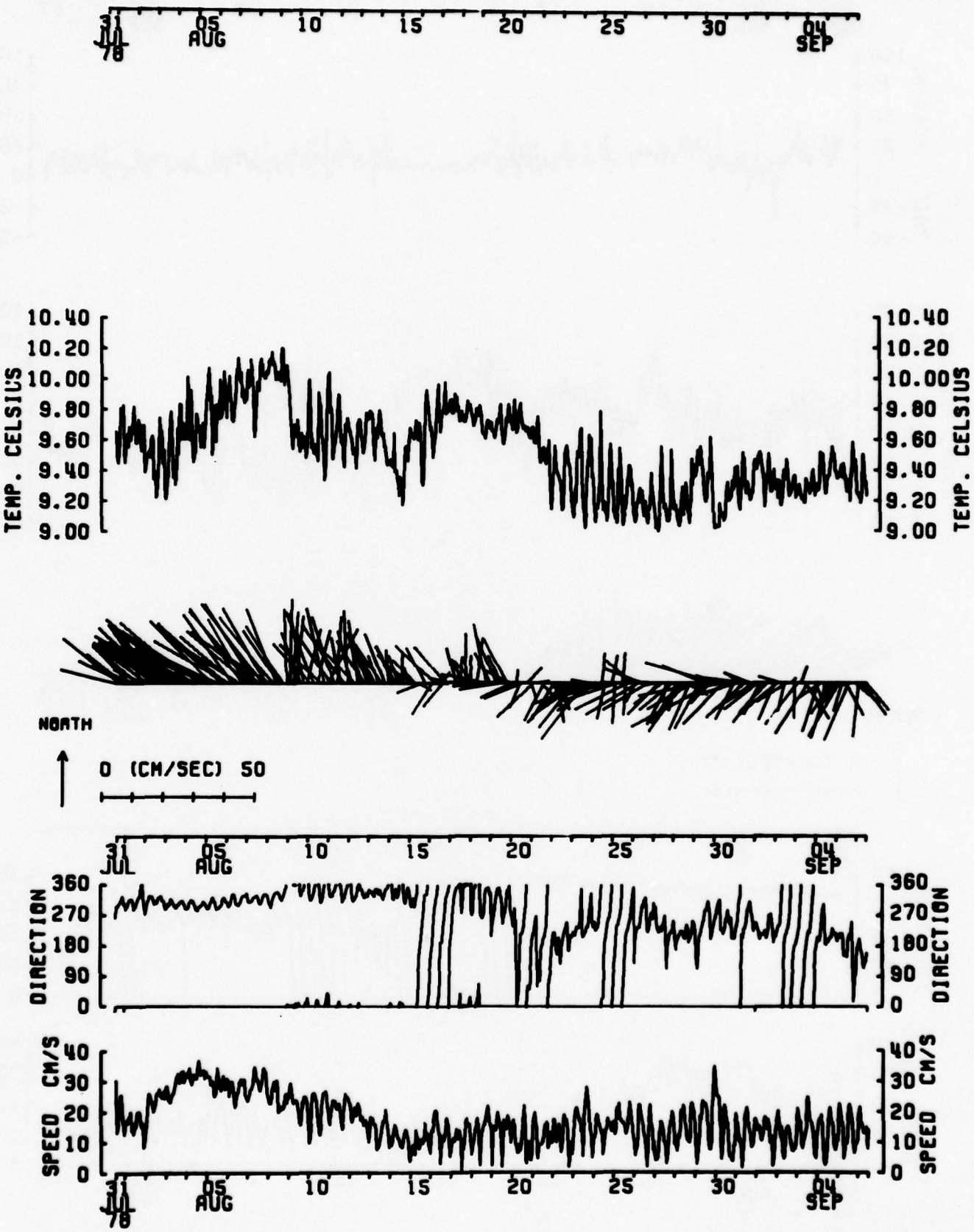
DATA 6529B DEPTH 70 M. SURFACE MOORING
VMCM-14



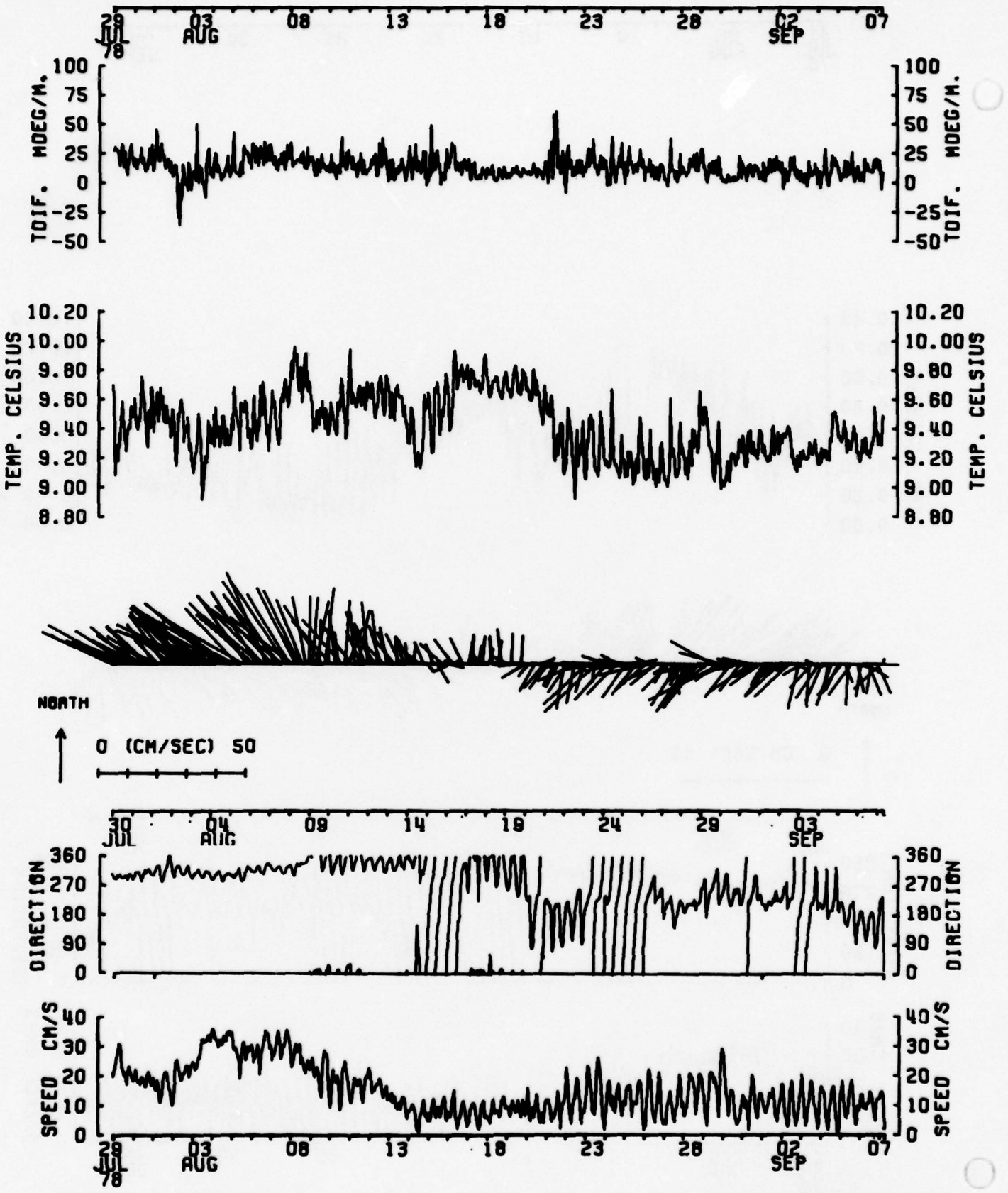
DATA 6511A DEPTH 79M. SUBSURFACE MOORING
DT-5104



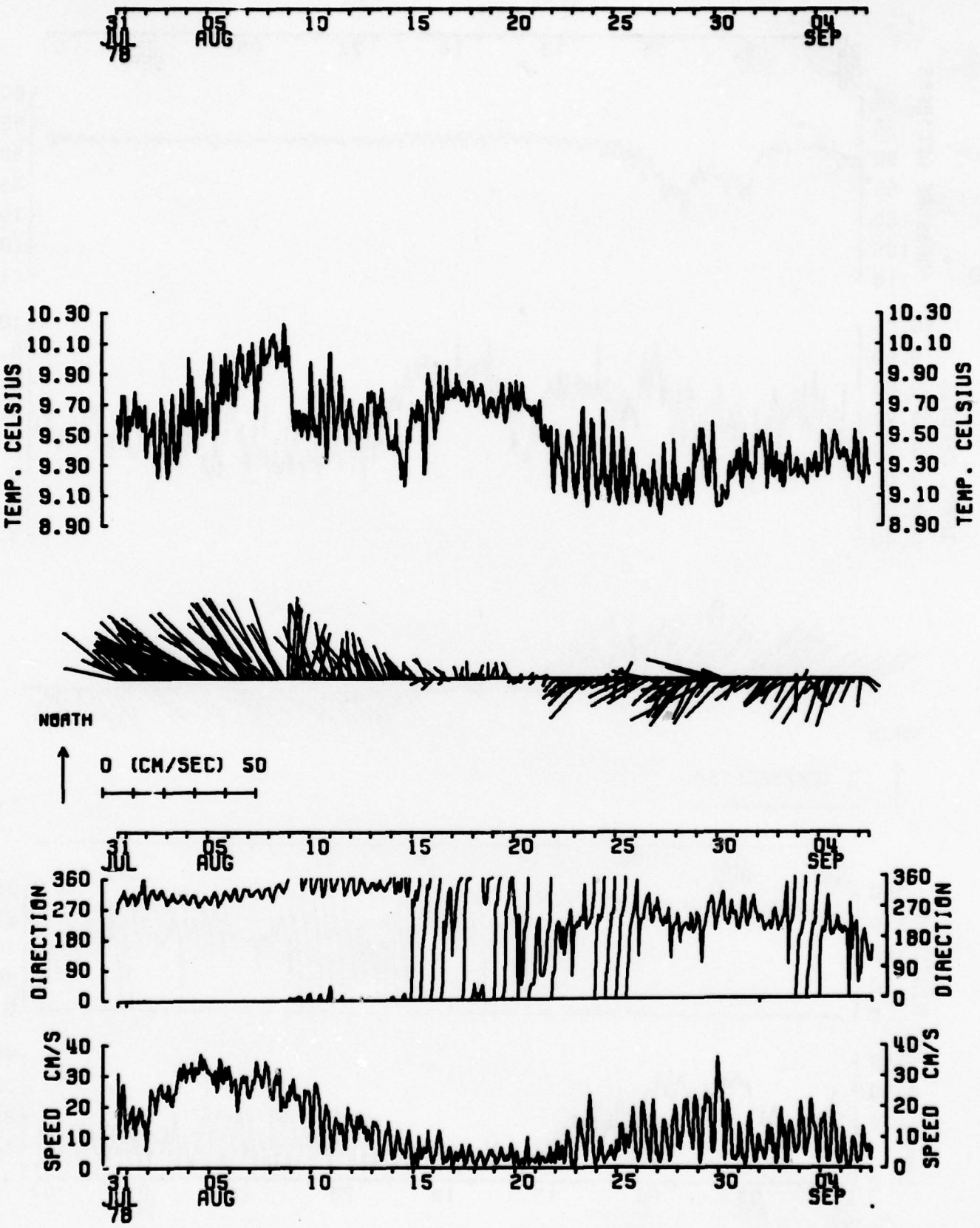
DATA 652.10A DEPTH 79M. SURFACE MOORING
V-436



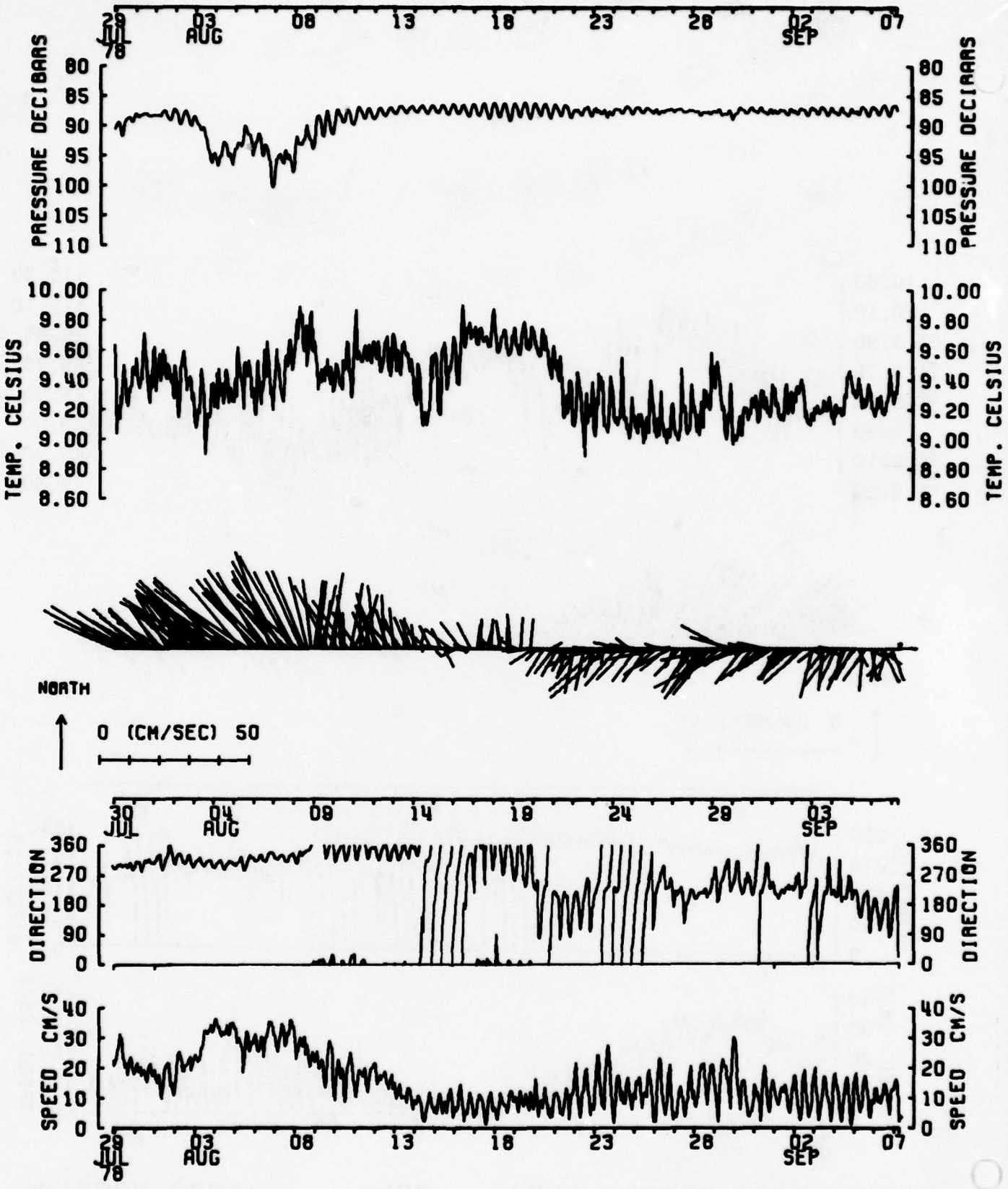
DATA 6536B DEPTH 79M. SPAR MOORING
DT-5113



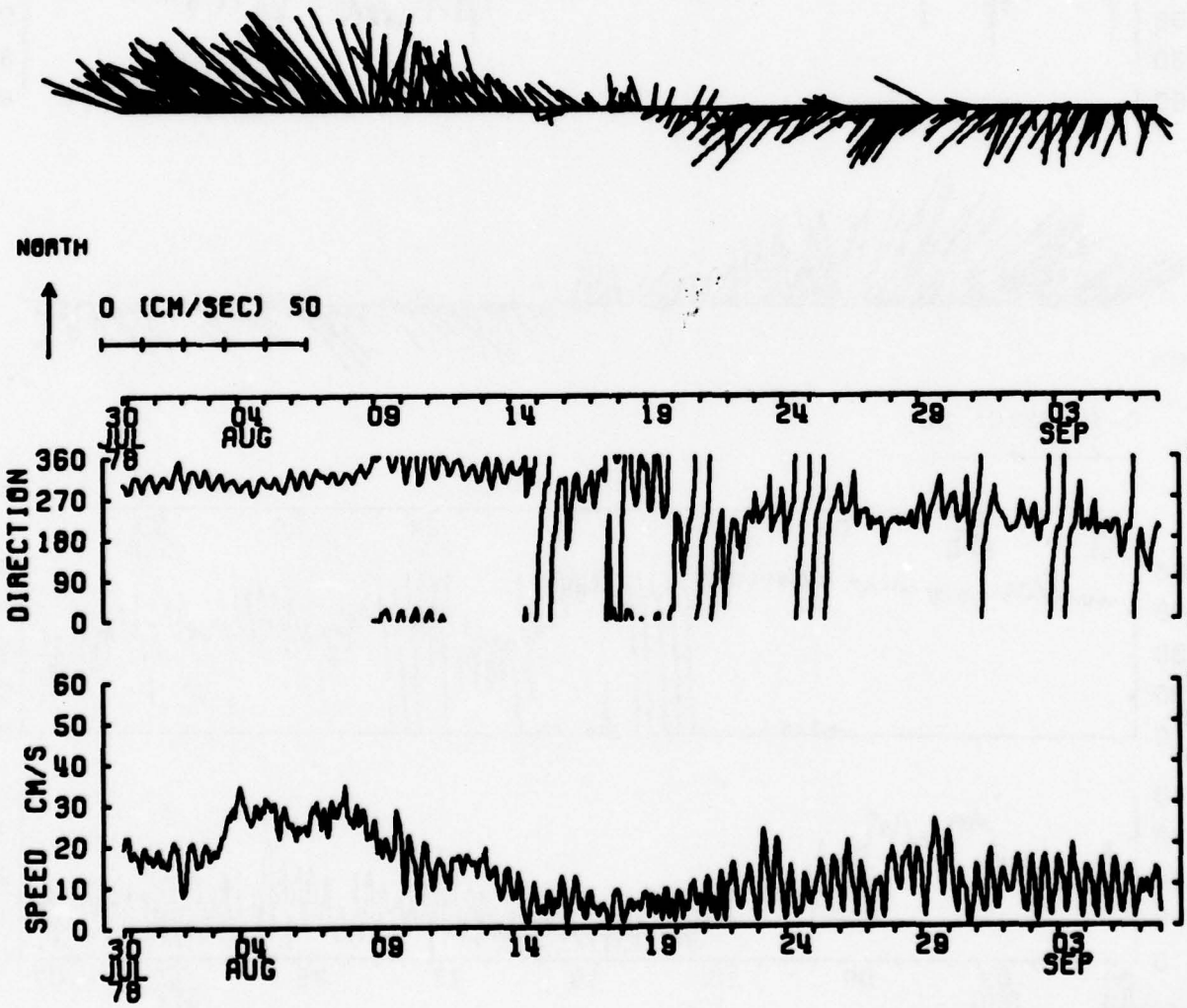
DATA 6512D DEPTH 82 M. SUBSURFACE MOORING
DT-5106



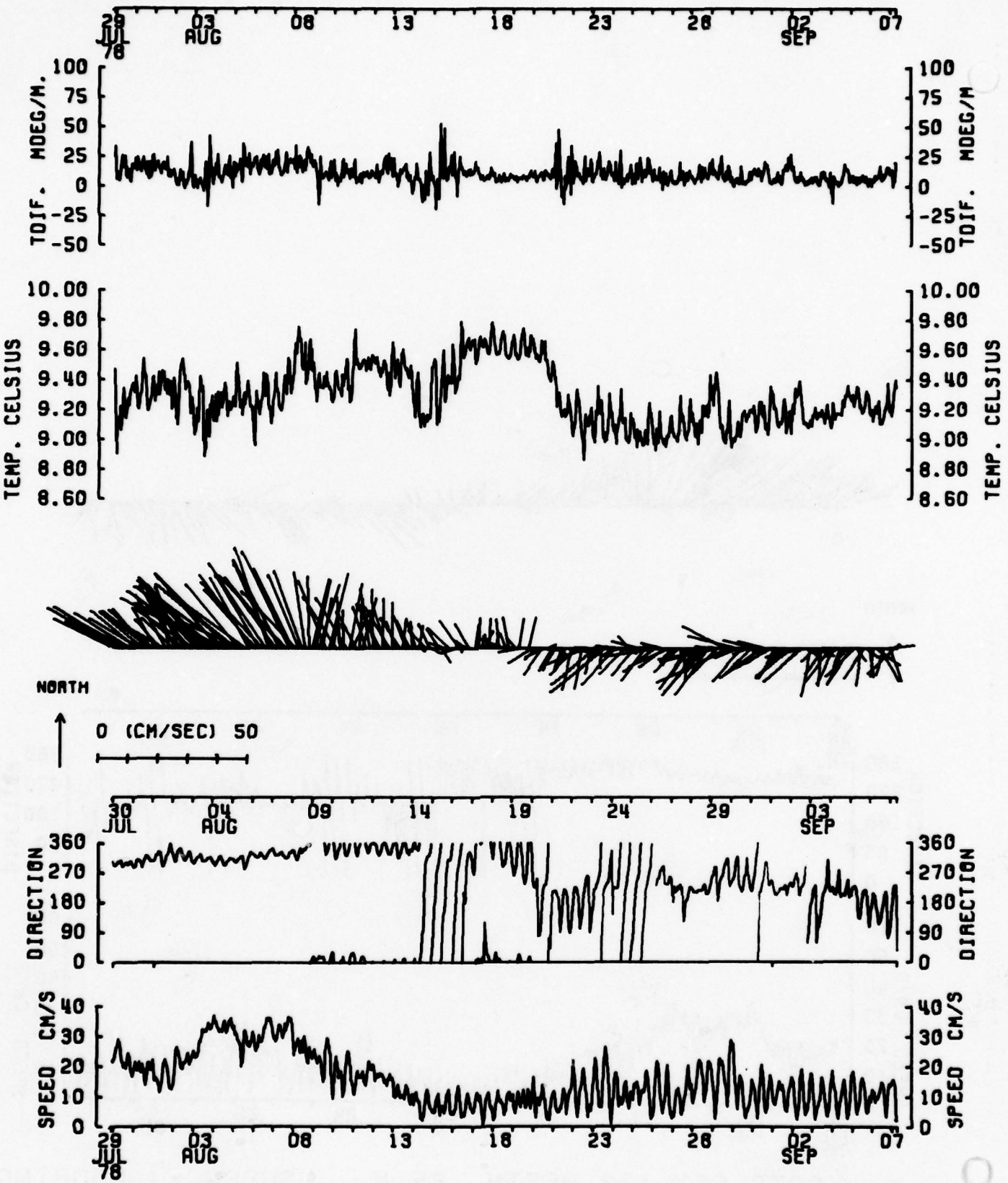
DATA 65370 DEPTH 82M. SPAR MOORING
ACM-1



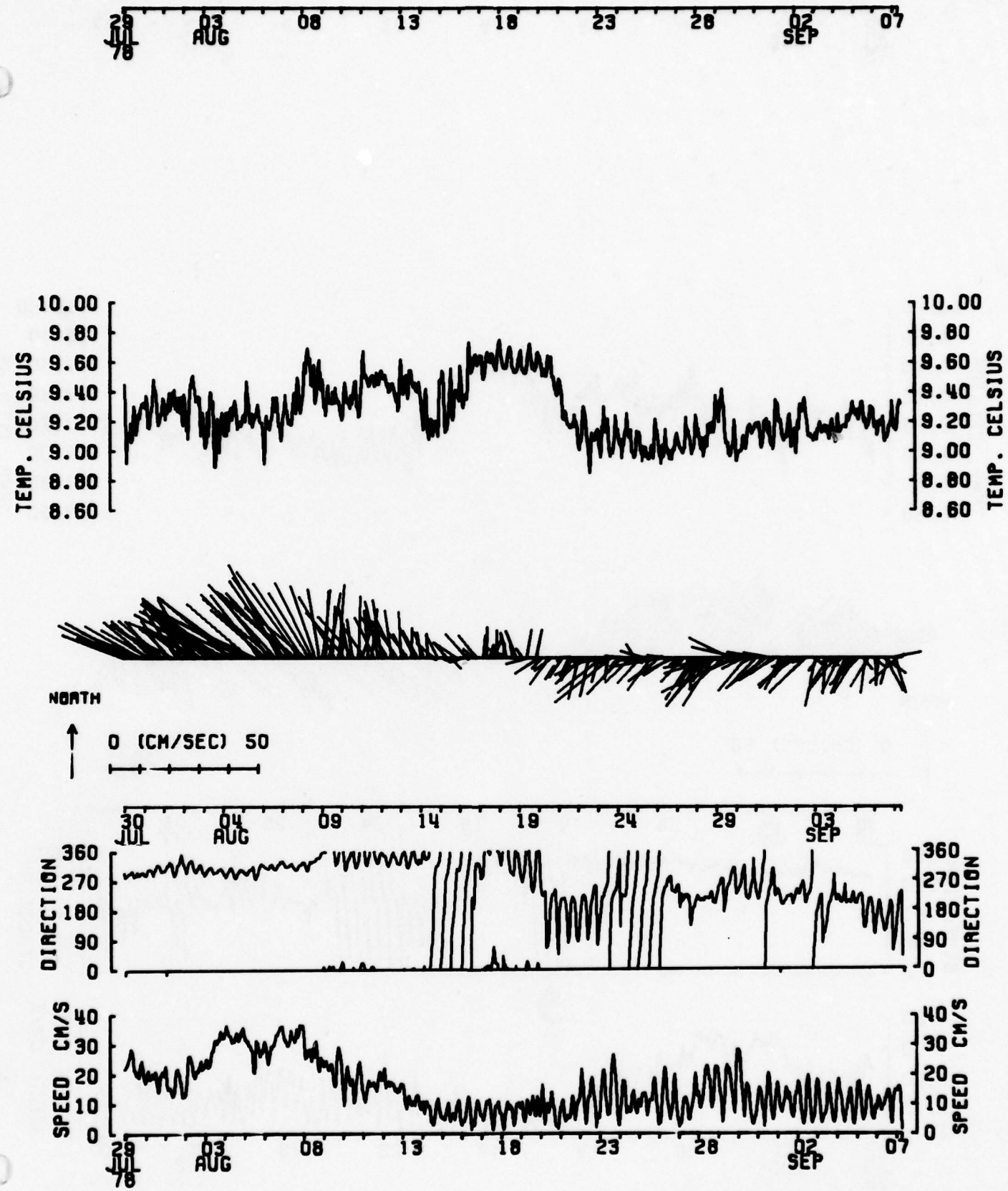
DATA 6513B DEPTH 85M. SUBSURFACE MOORING
V326P



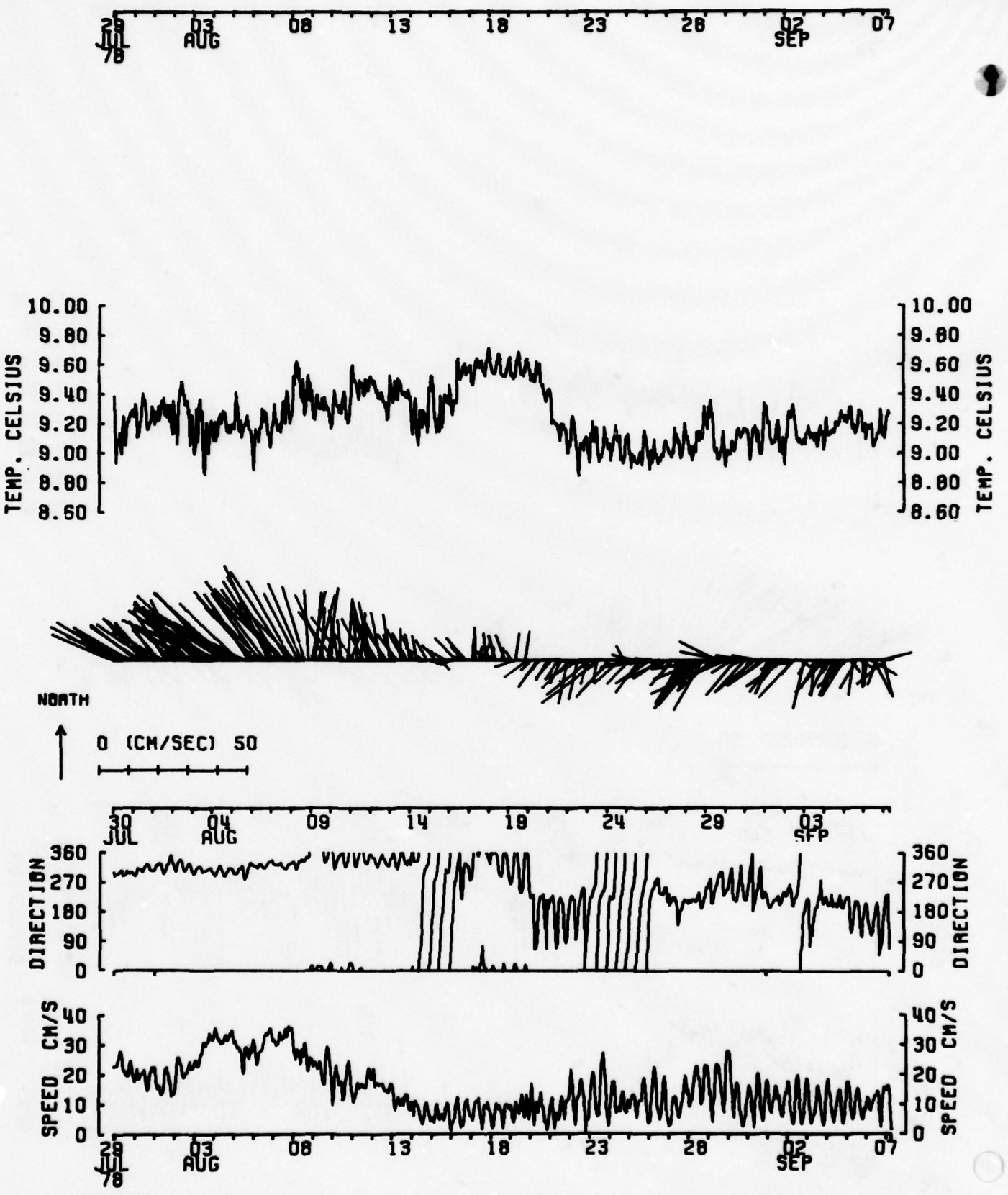
DATA 652,128 DEPTH 85 M. SURFACE MOORING
VMCM-13



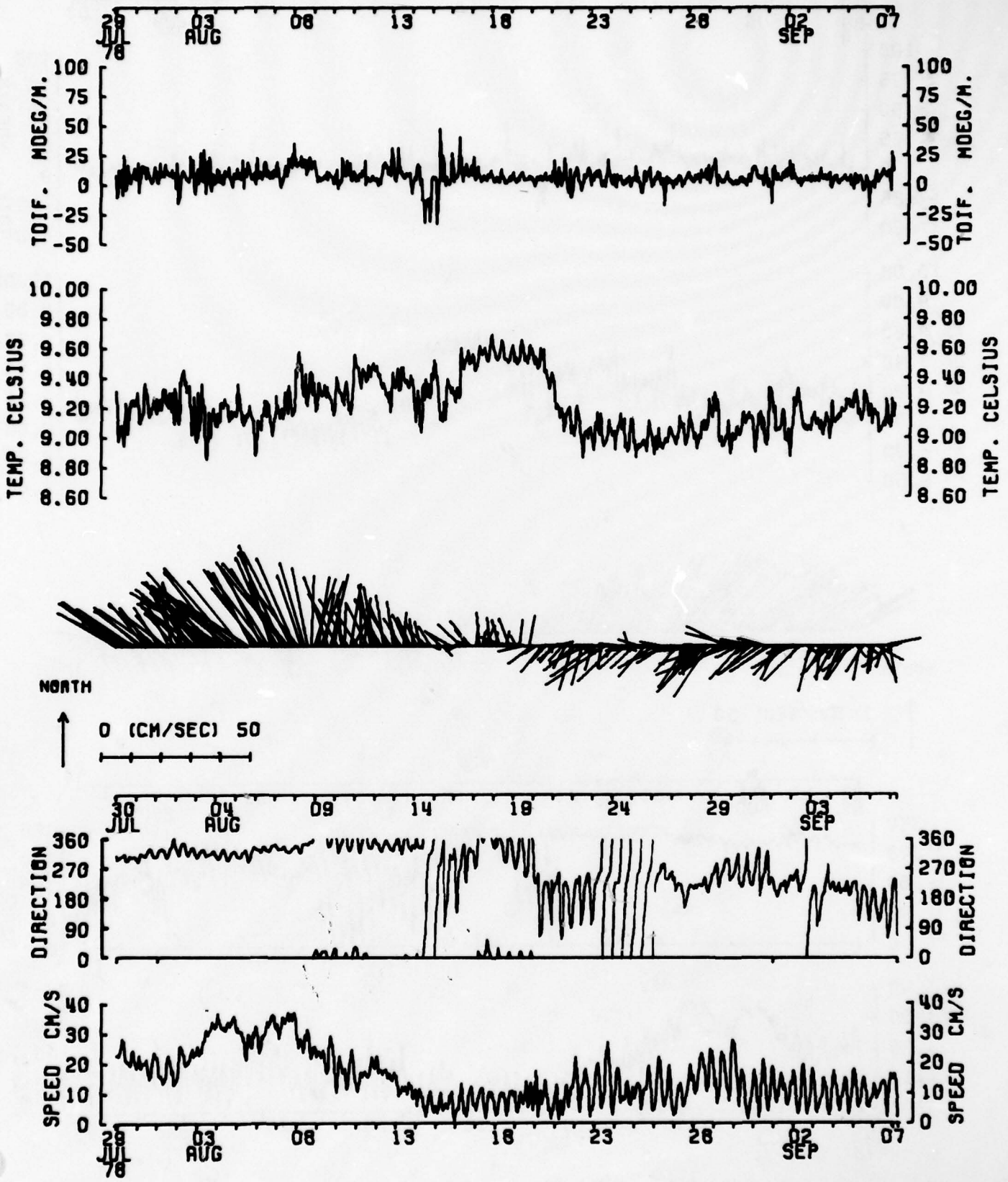
DATA 6515C DEPTH 91M. SUBSURFACE MOORING
DT-5107



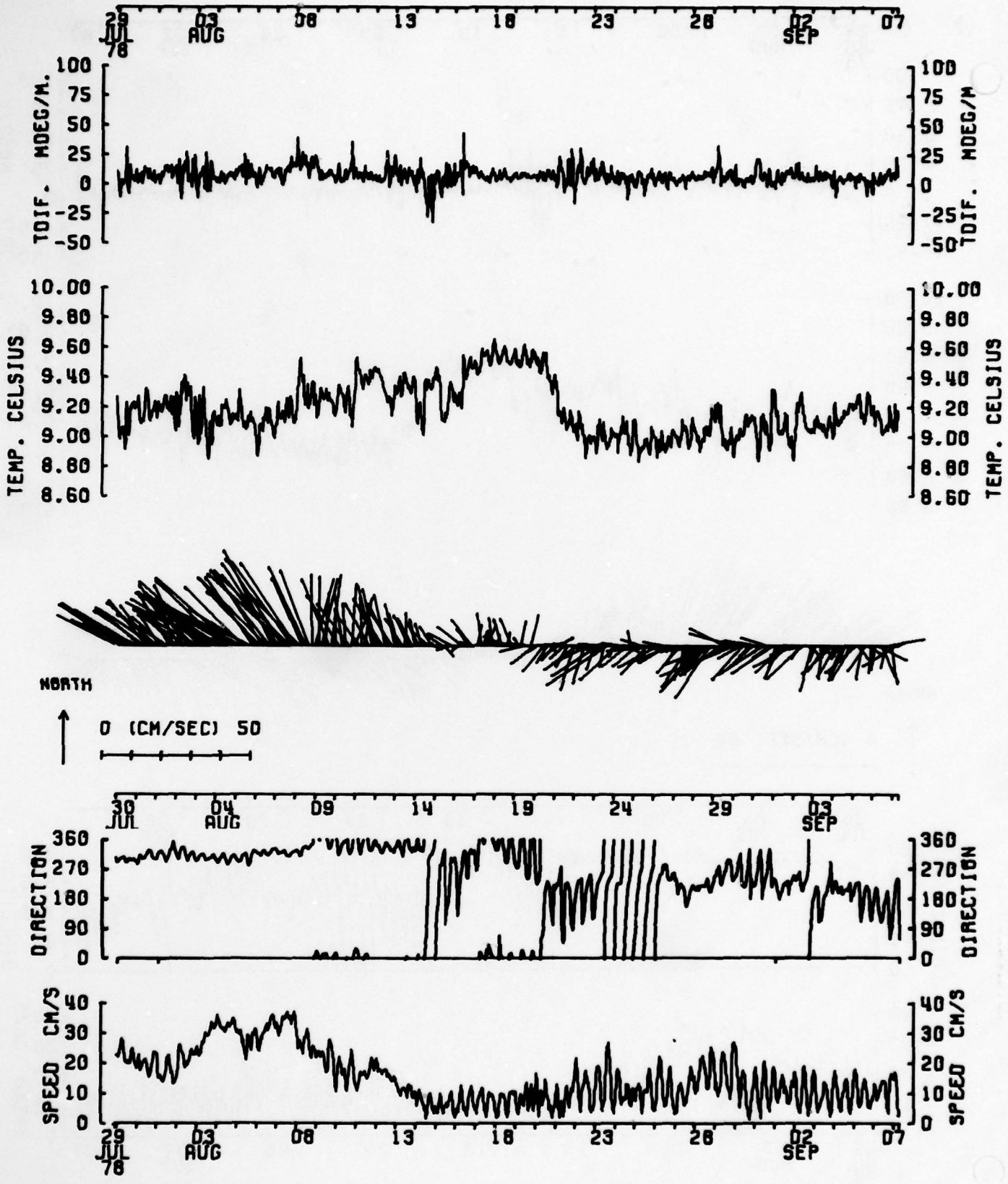
DATA 6516F DEPTH 94M. SUBSURFACE MOORING
V-177



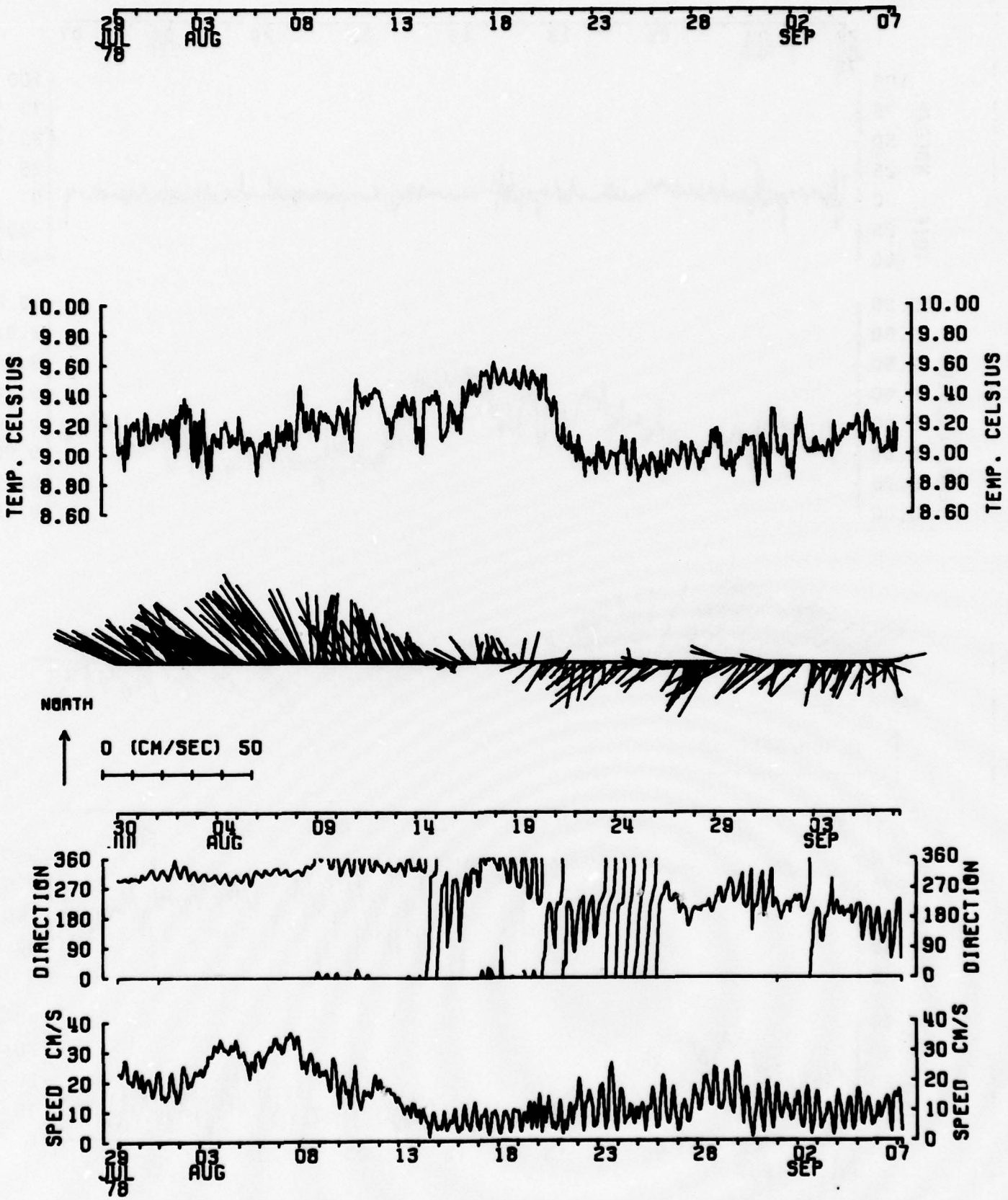
DATA 6517C DEPTH 97M. SUBSURFACE MOORING
V-386



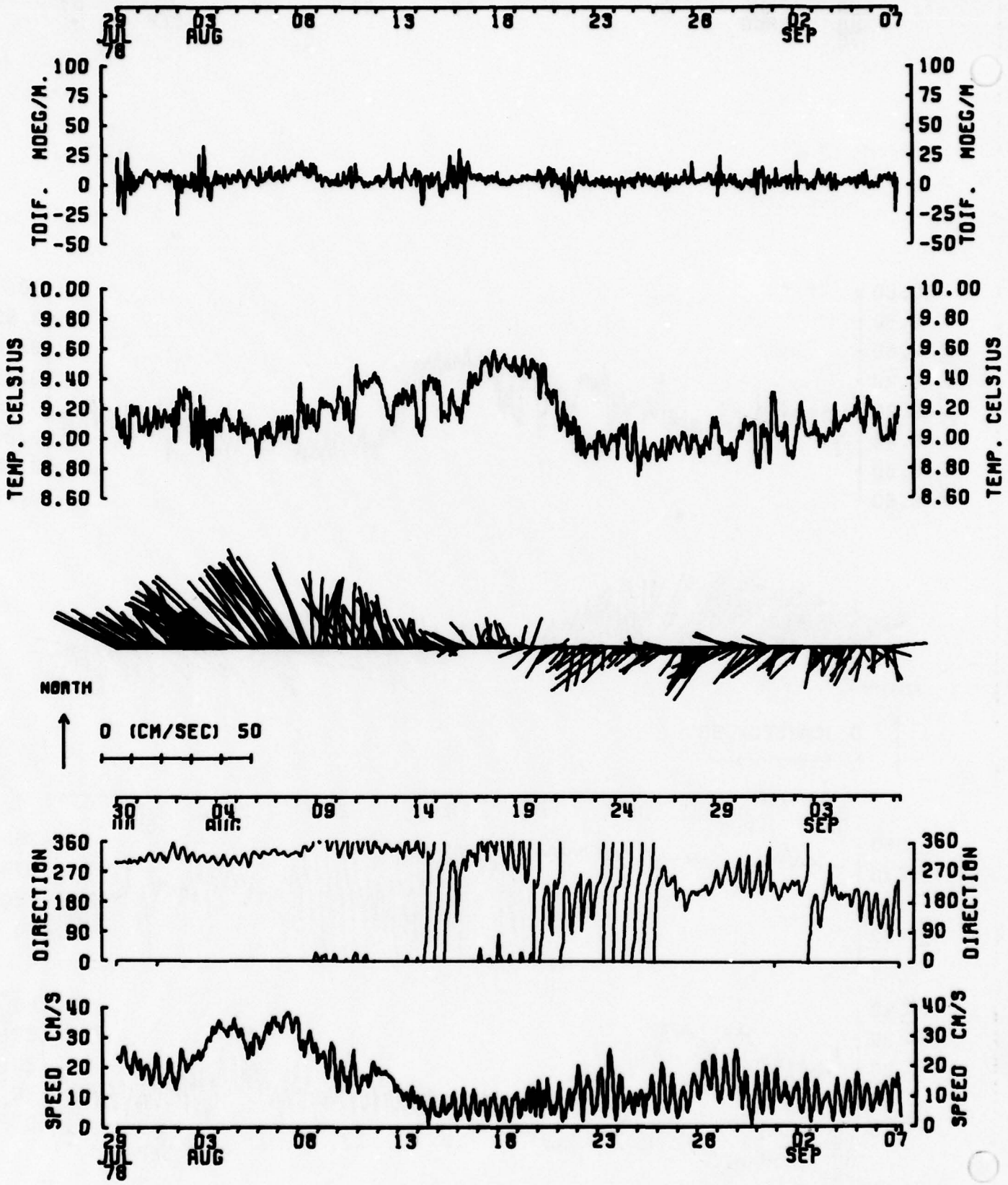
DATA 6518A DEPTH 100M. SUBSURFACE MOORING
DT-5108



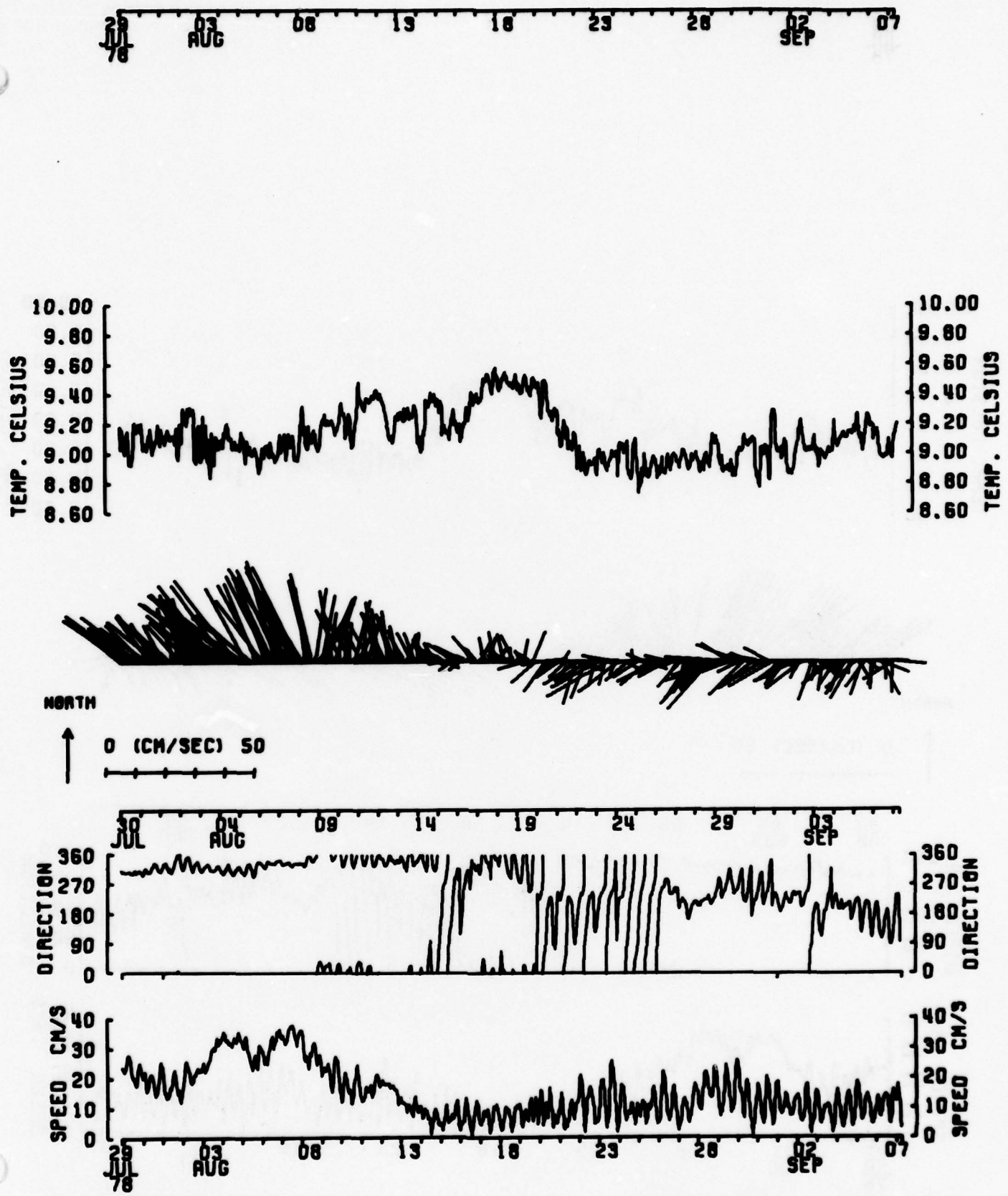
DATA 6519A DEPTH 103M. SUBSURFACE MOORING
DT-5109



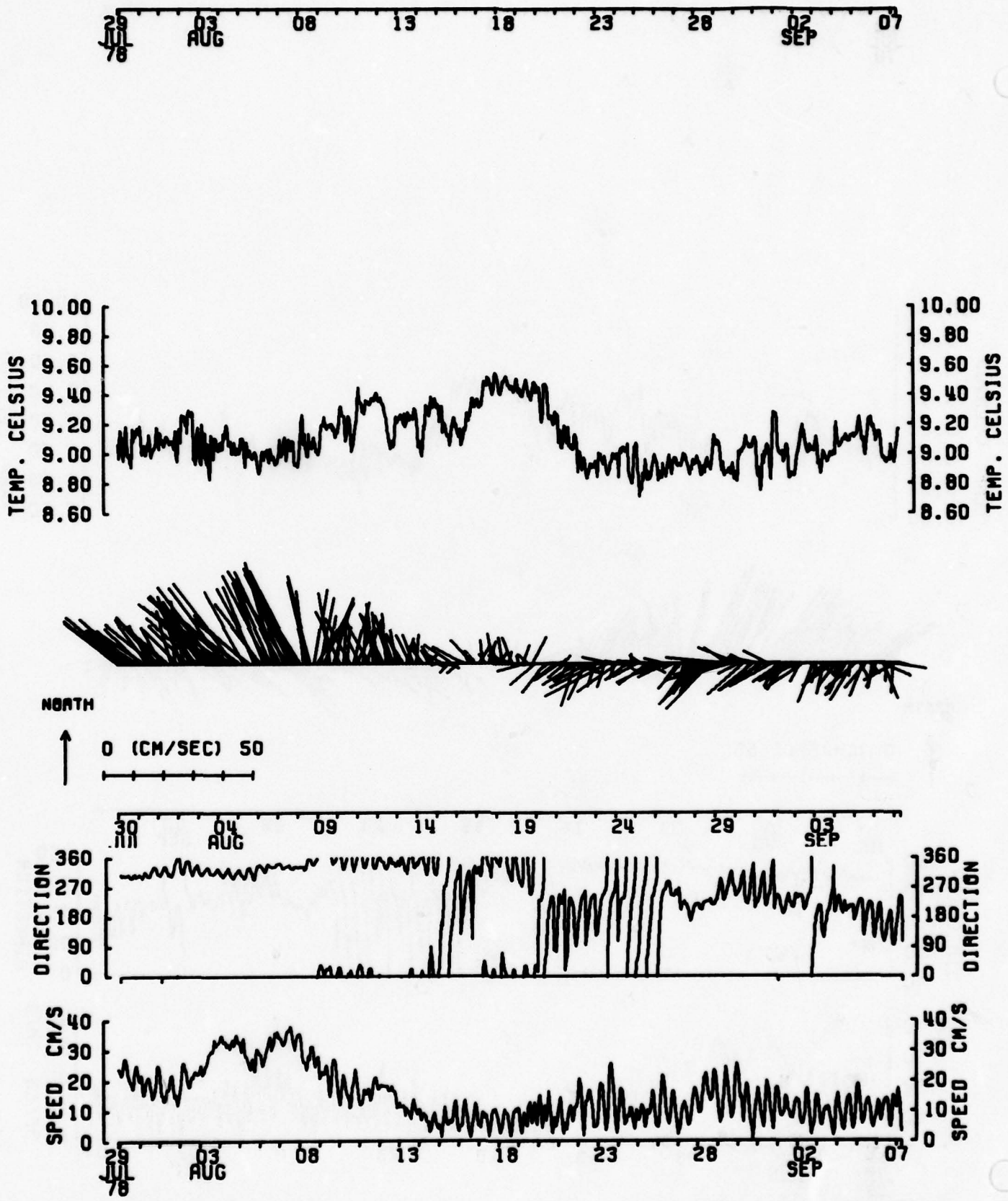
DATA 651,10C DEPTH 106M. SUBSURFACE MOORING
V-373



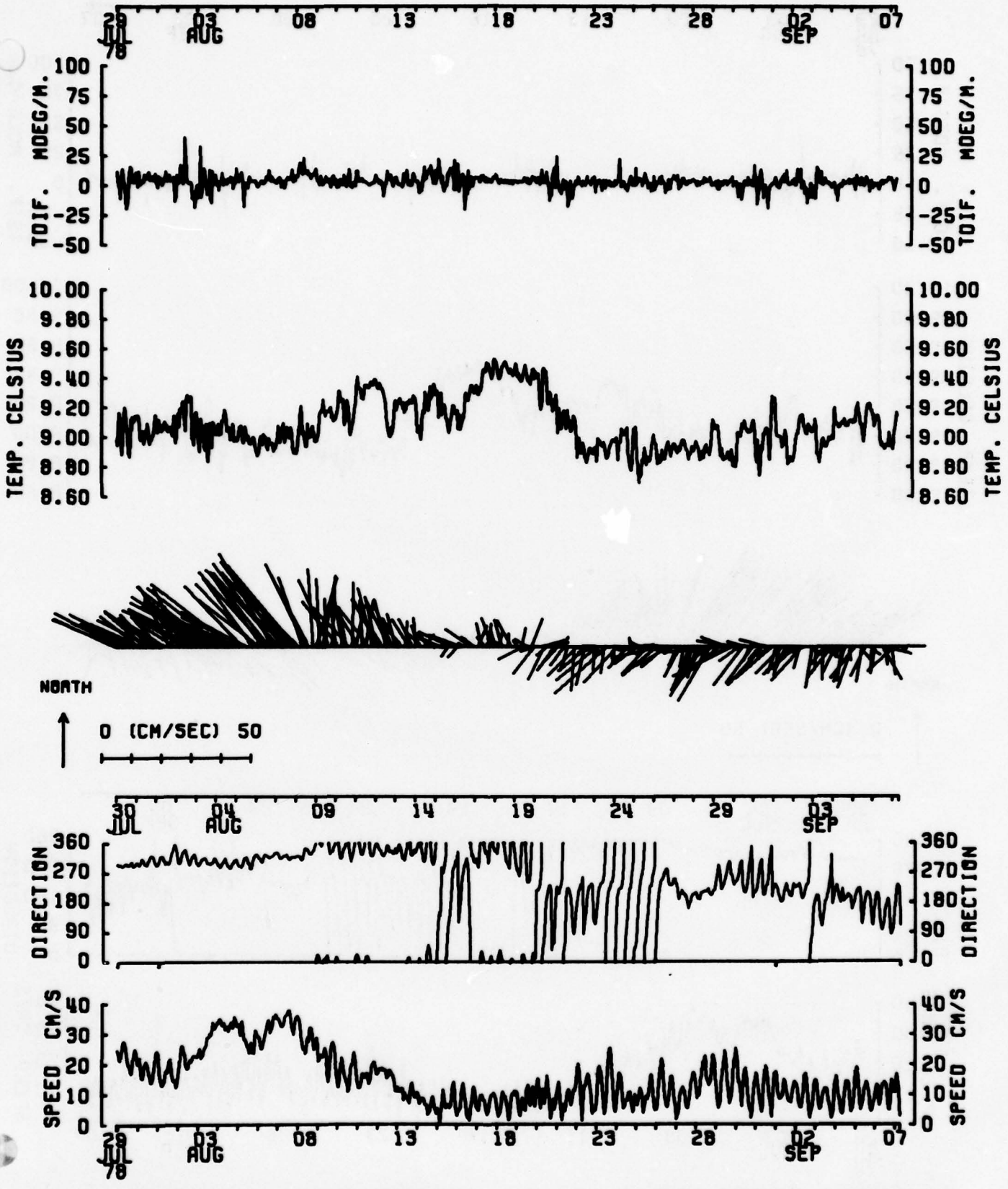
DATA 651,12A DEPTH 112M. SUBSURFACE MOORING
DT-5114



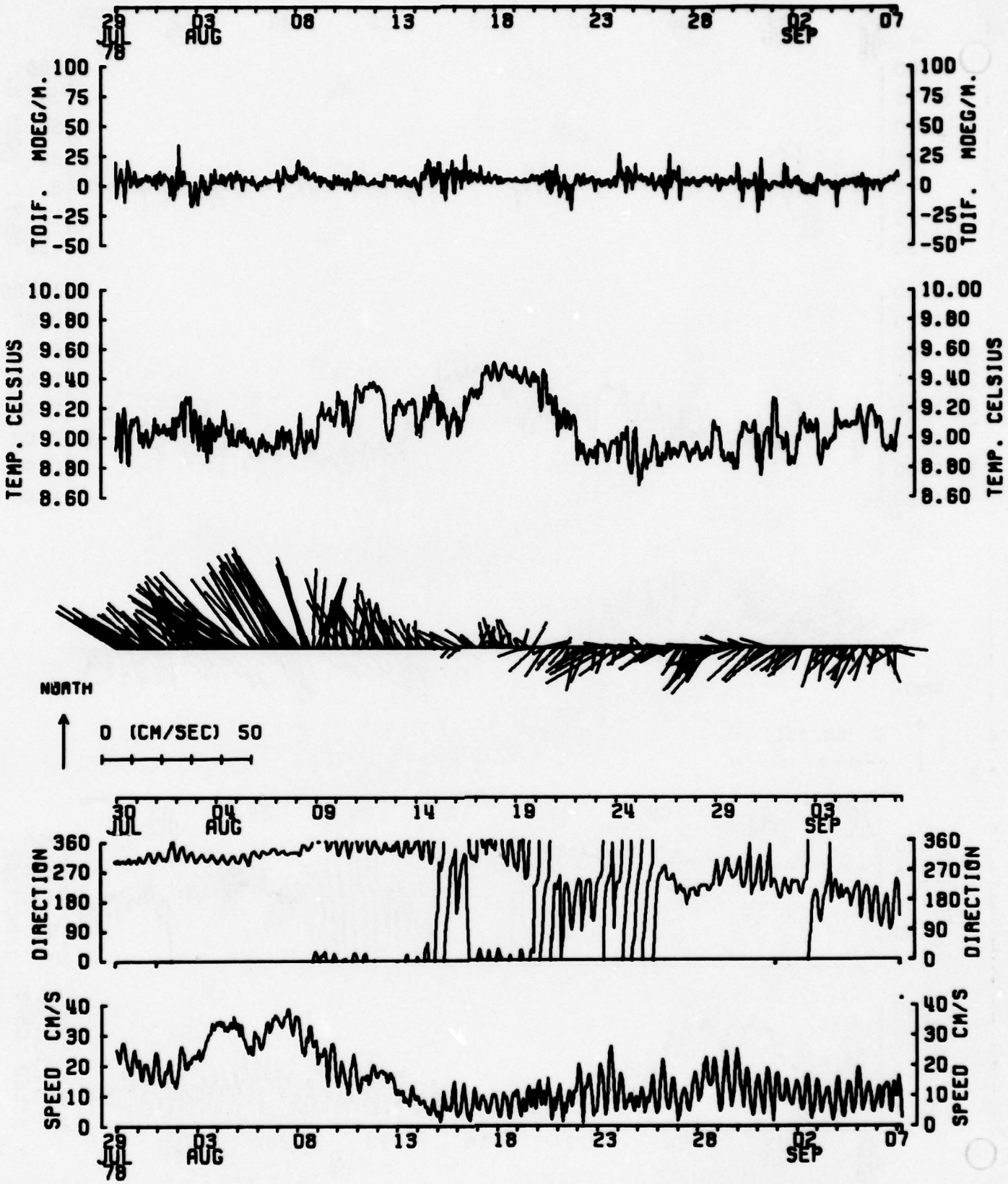
DATA 651,13B DEPTH 115M. SUBSURFACE MOORING
V-101



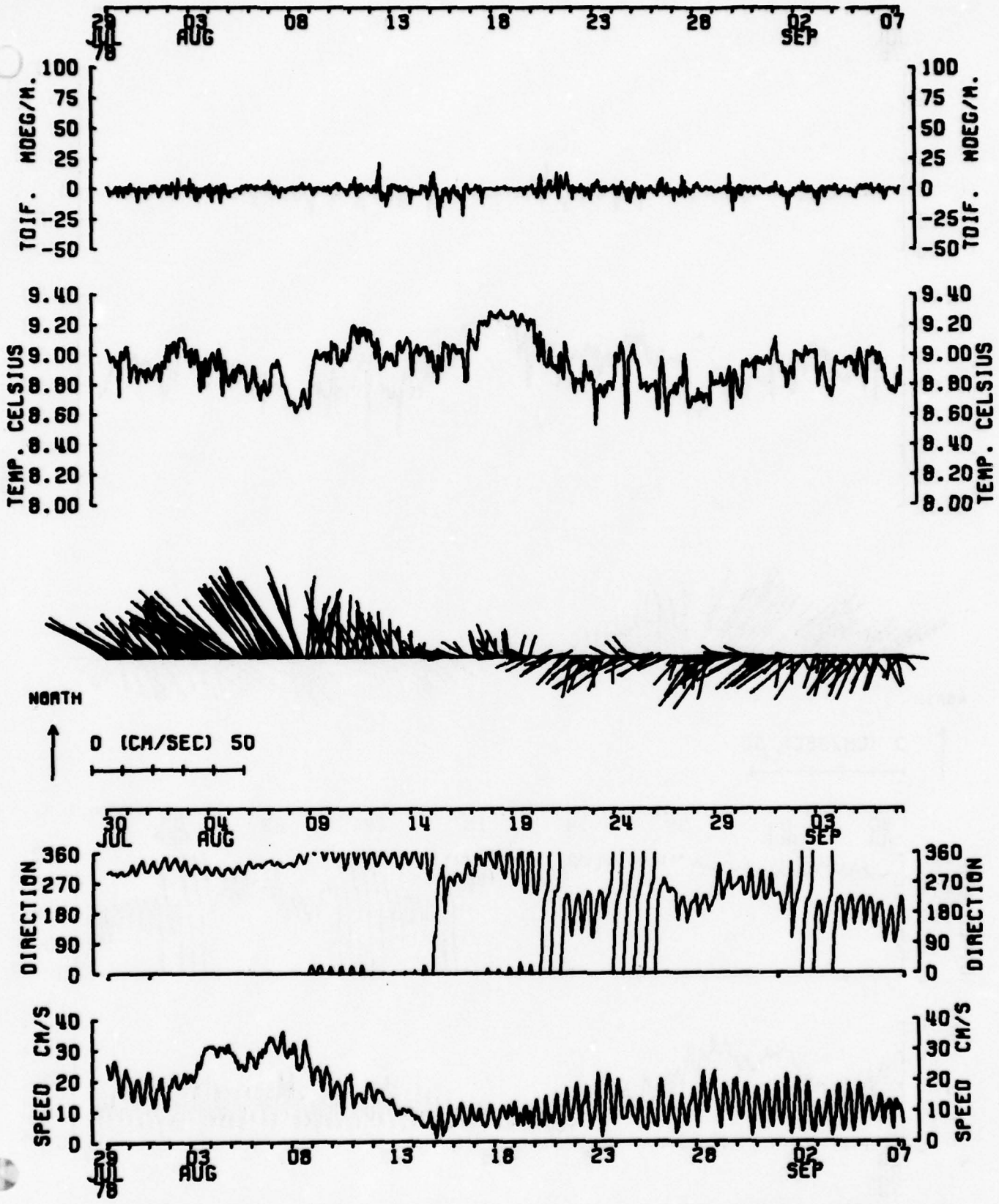
DATA 651,14B DEPTH 118M. SUBSURFACE MOORING
V-105



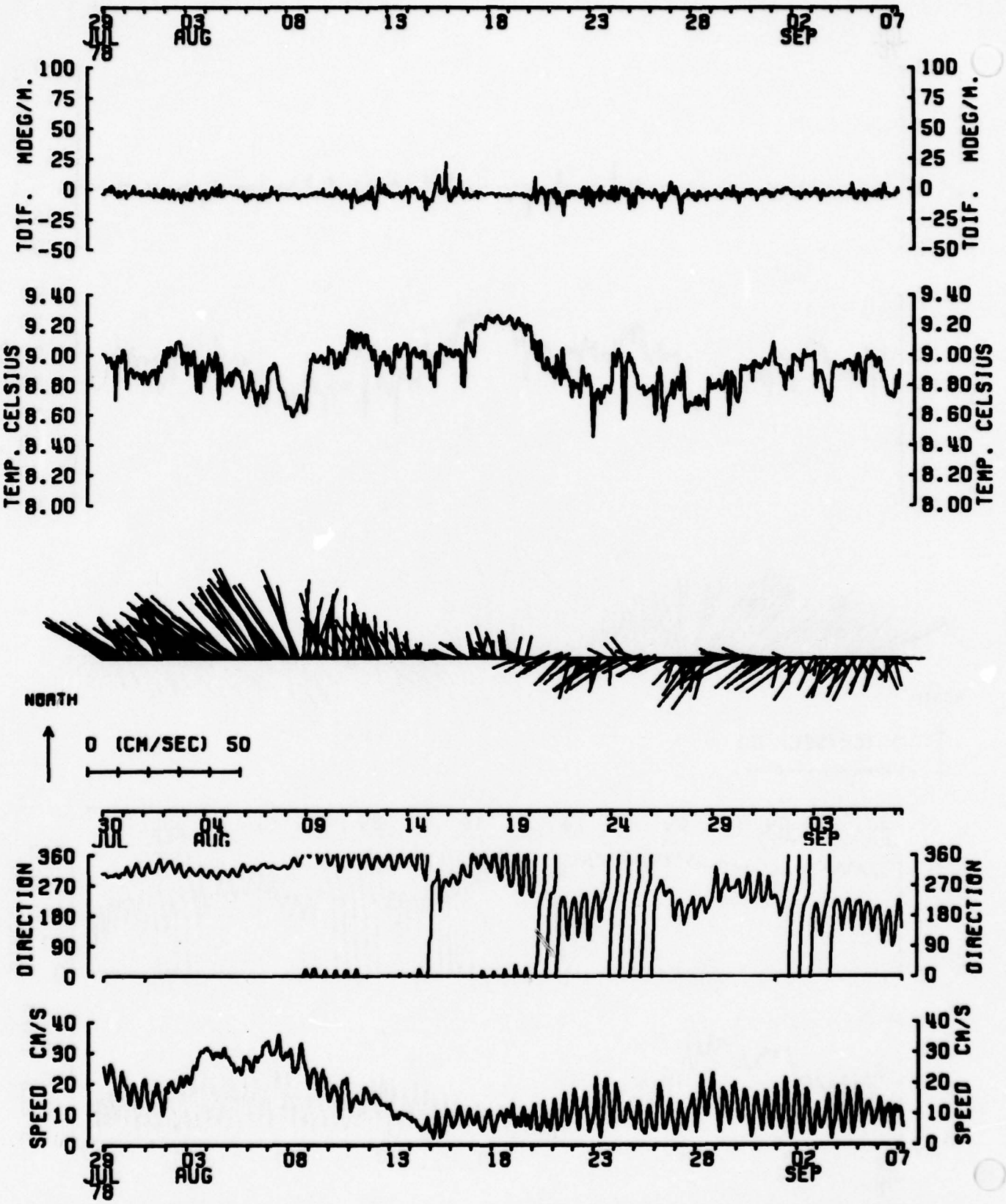
DATA 651,15B DEPTH 121M. SUBSURFACE MOORING
DT-5115



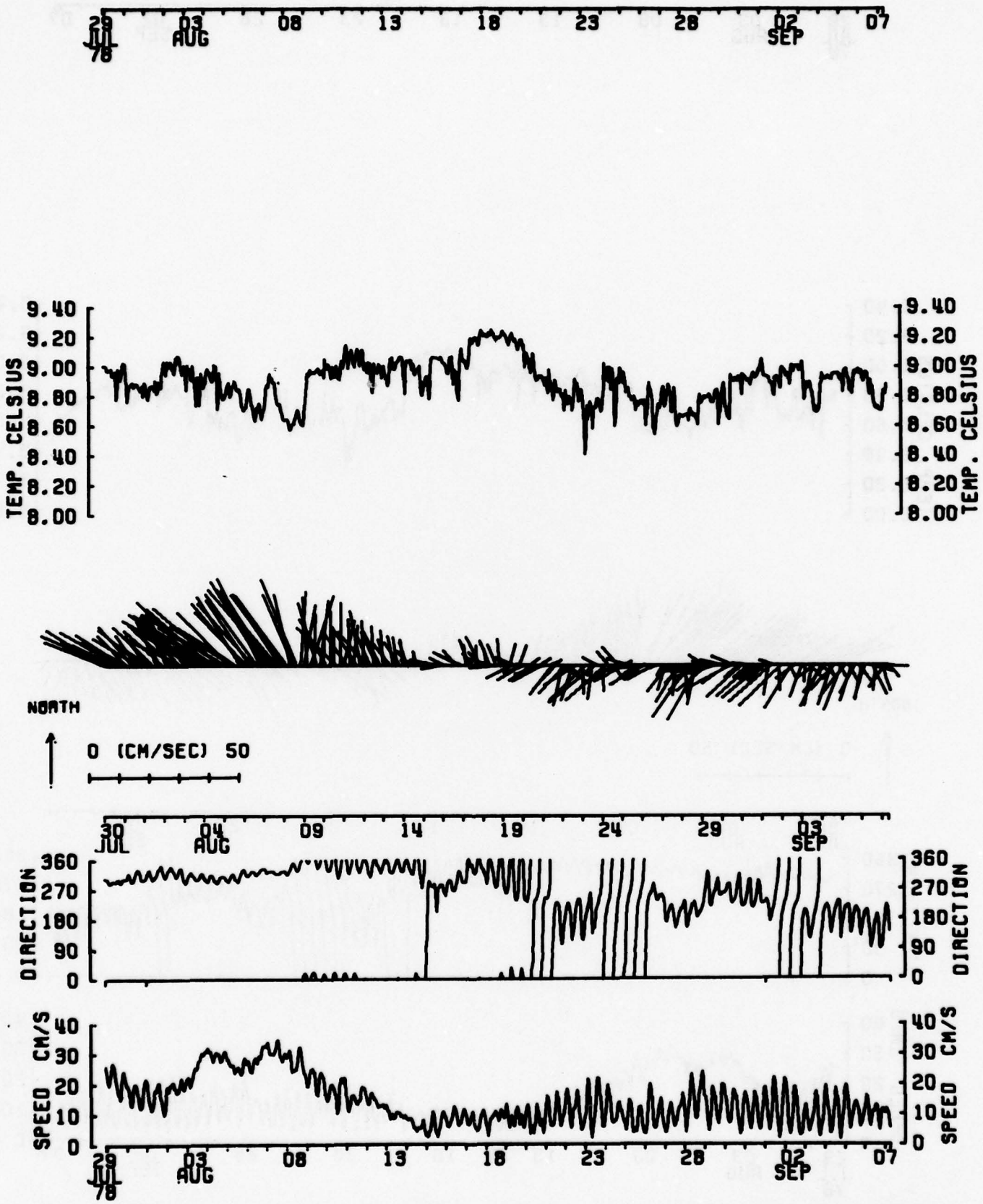
DATA 651,16A DEPTH 124M. SUBSURFACE MOORING
DT-5116



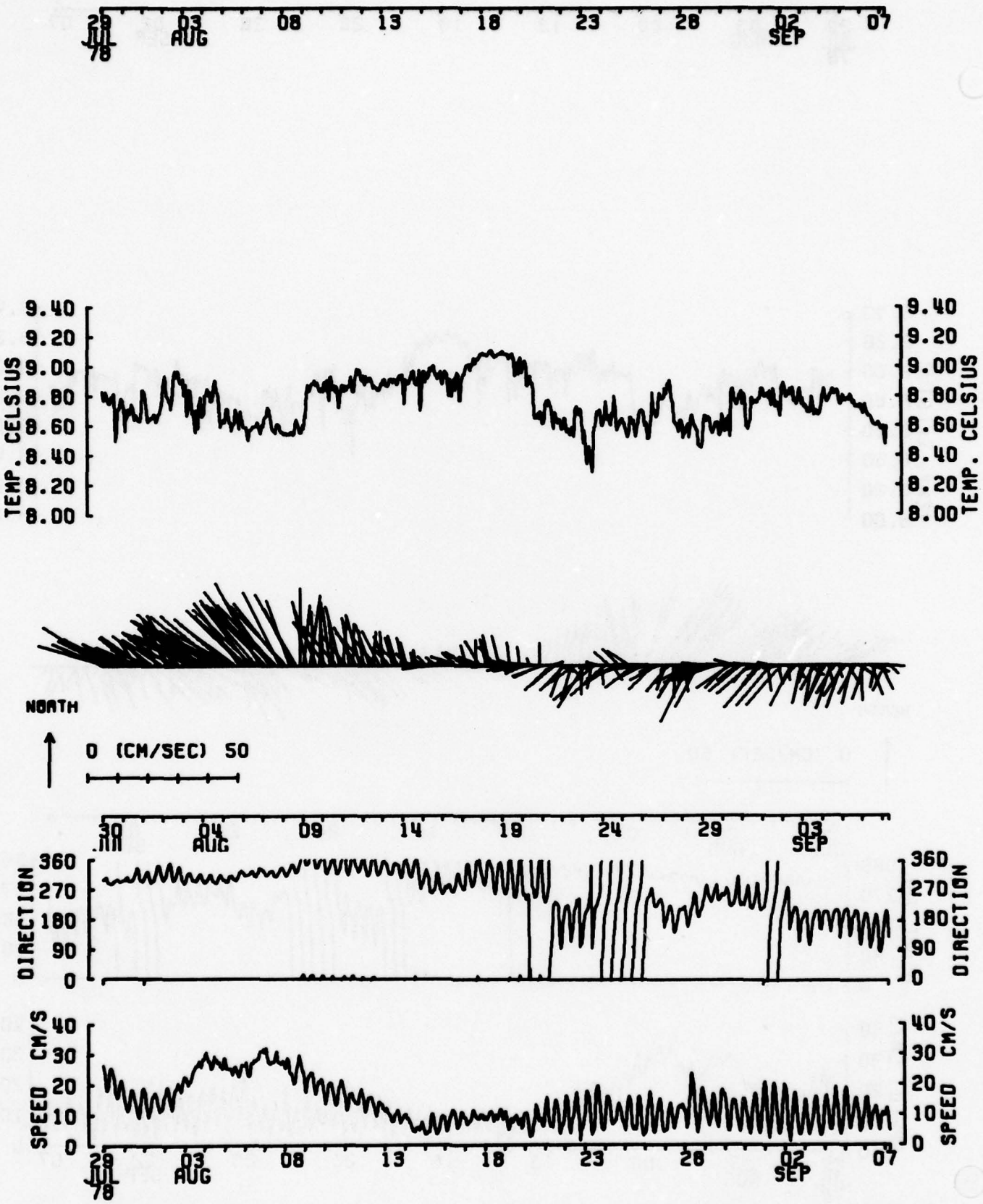
DATA 651,17A DEPTH 185M. SUBSURFACE MOORING
DT-5117



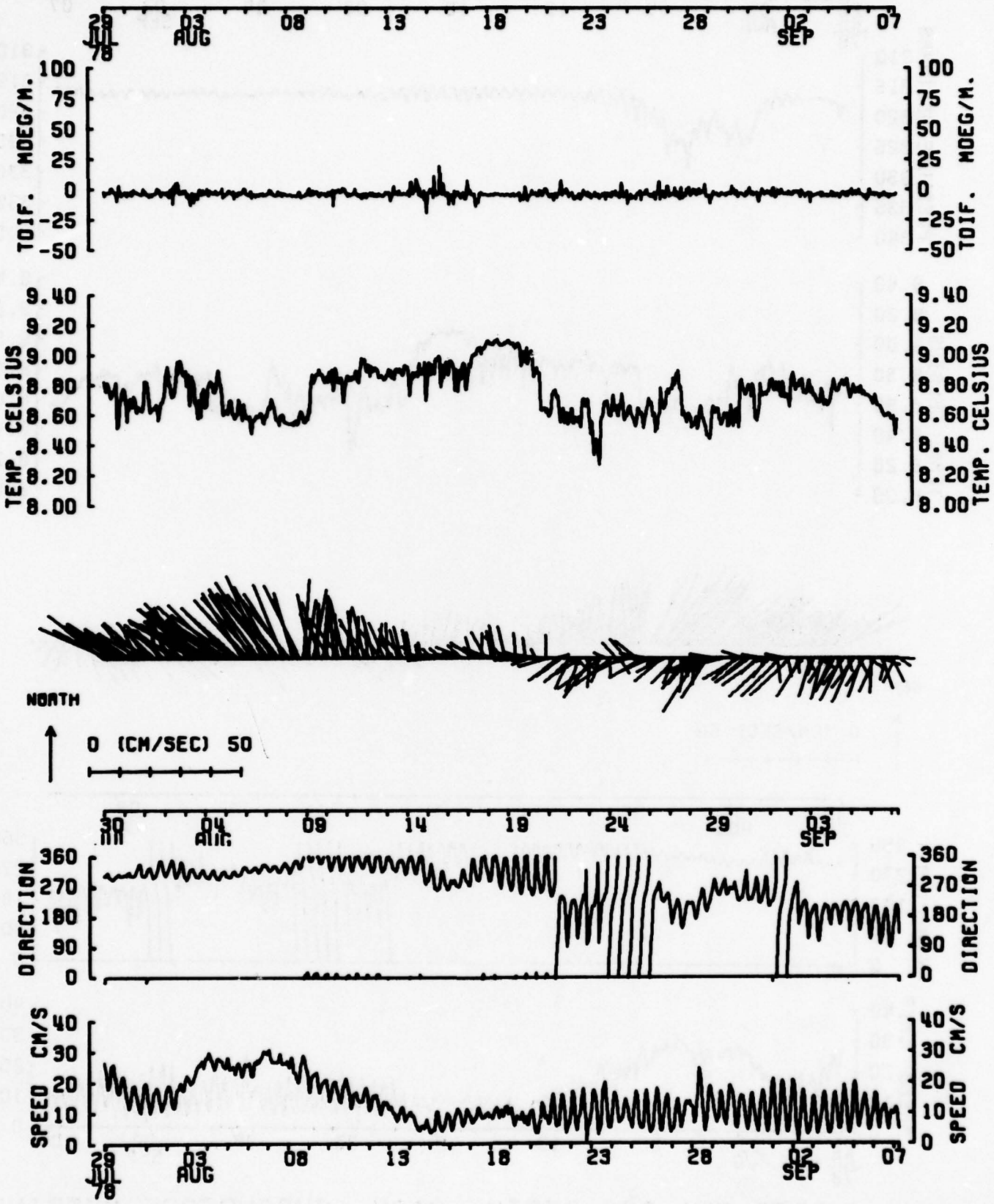
DATA 651,18A DEPTH 200M. SUBSURFACE MOORING
DT-5101



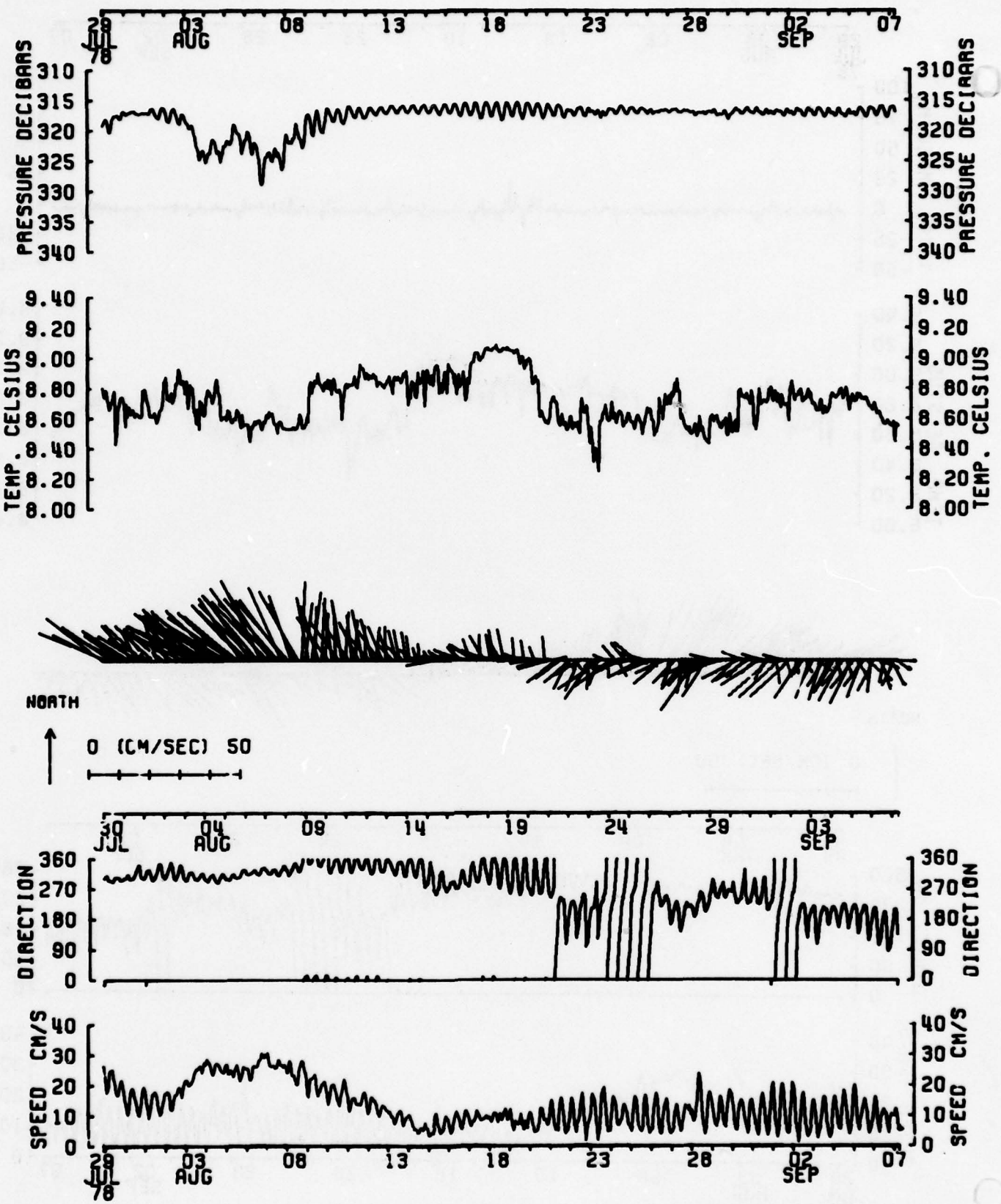
DATA 651,19A DEPTH 210M. SUBSURFACE MOORING
V-431



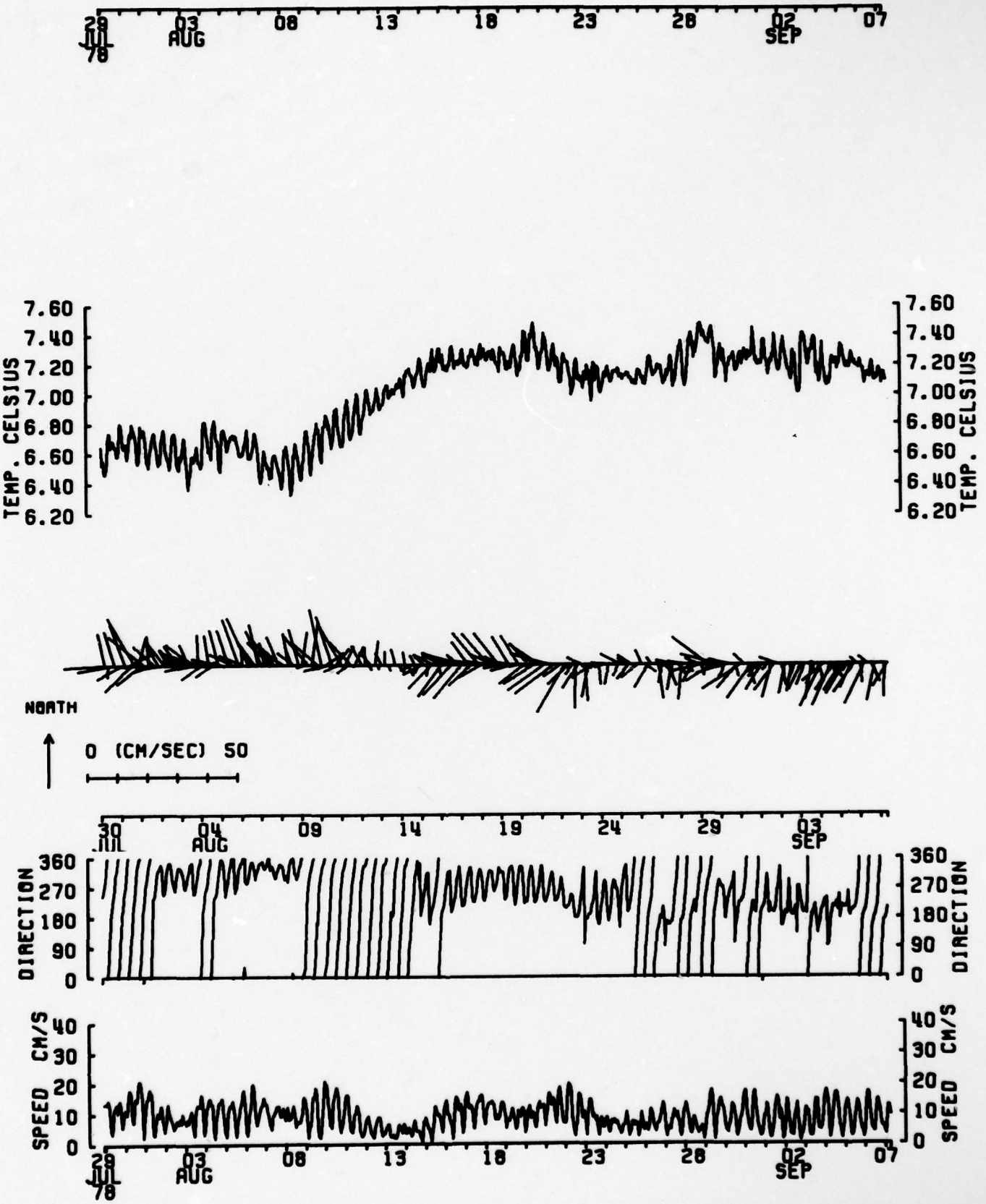
DATA 651,20A DEPTH 295M. SUBSURFACE MOORING
DT-5102



DATA 651,21A DEPTH 300M. SUBSURFACE MOORING
DT-5110

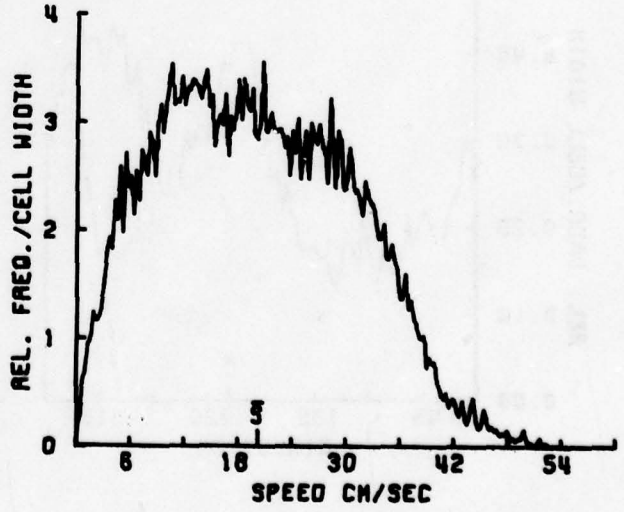


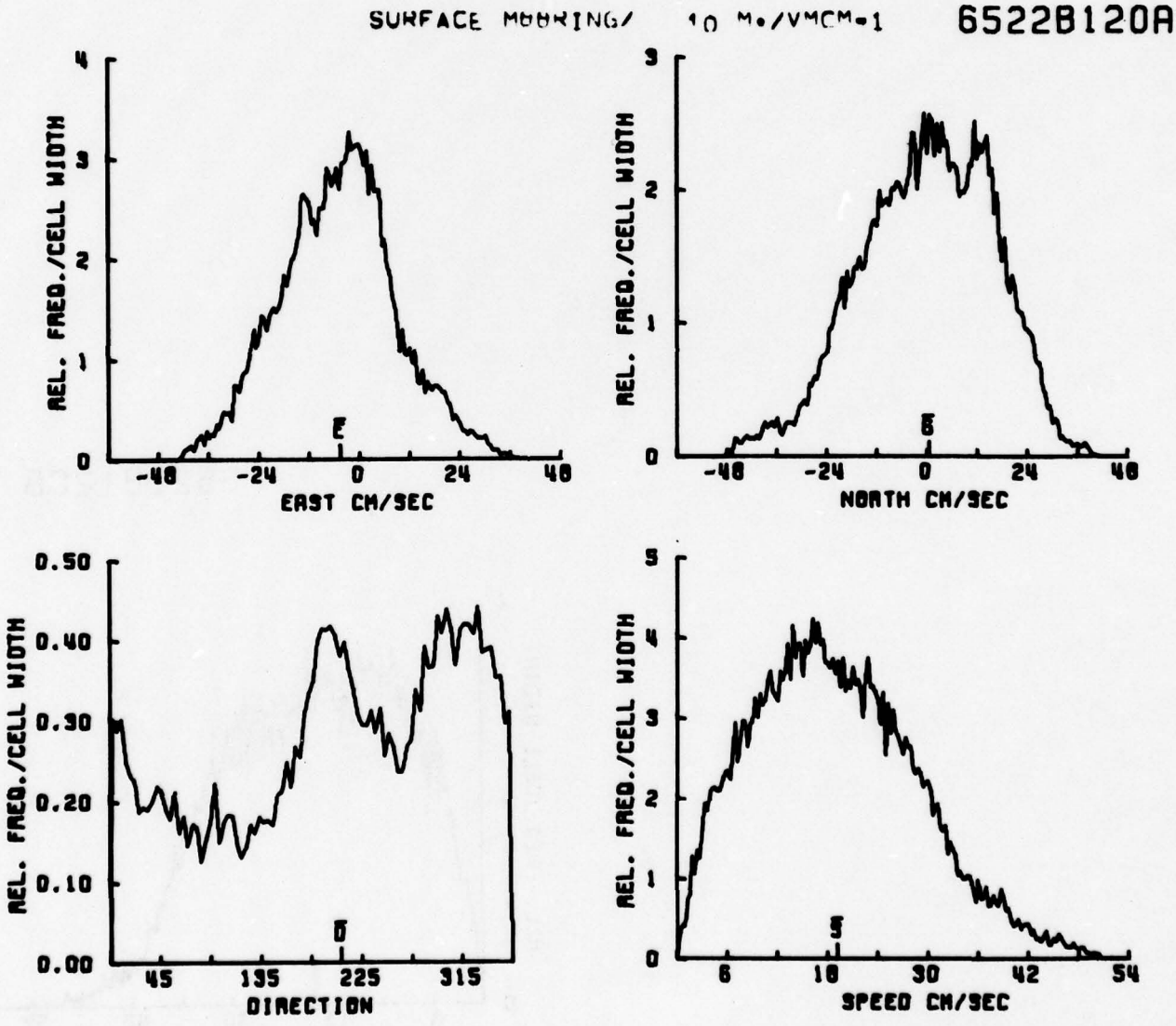
DATA 651,22A DEPTH 310M. SUBSURFACE MOORING
V-110P



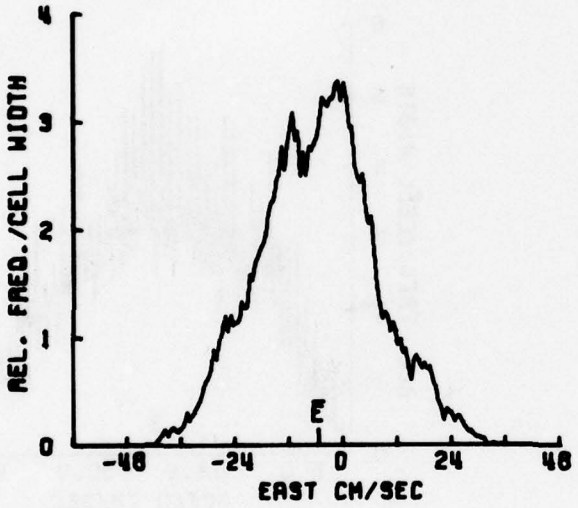
DATA 651,23C DEPTH 1000M. SUBSURFACE MOORING
DT-5105

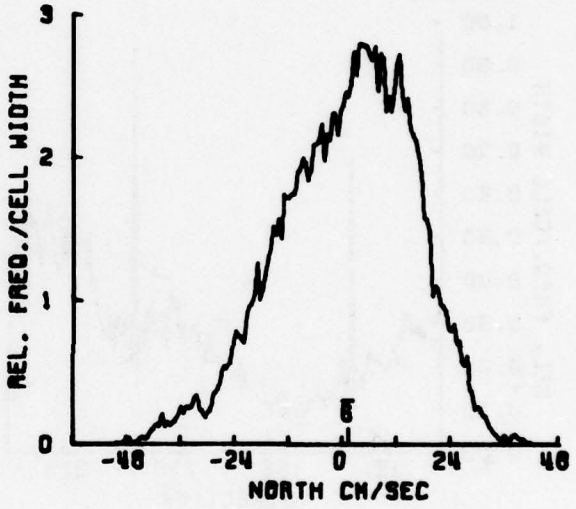
6521B120B

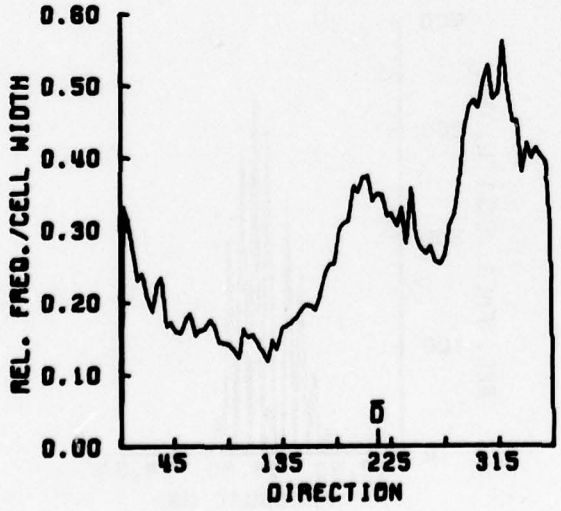


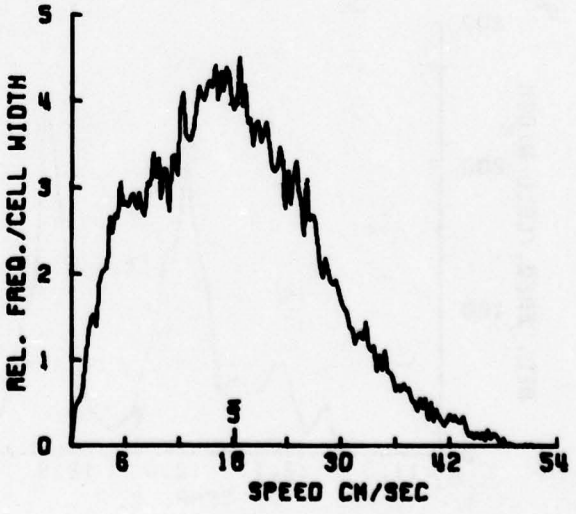

SURFACE MOORING/ 10 M./VMCM=1
6522B120A
REL. FREQ./CELL WIDTH
EAST CM/SEC
NORTH CM/SEC
DIRECTION
SPEED CM/SEC
E
N
D
S
0.00
0.10
0.20
0.30
0.40
0.50
45
135
225
315
6
18
30
42
54
-48
-24
0
24
48

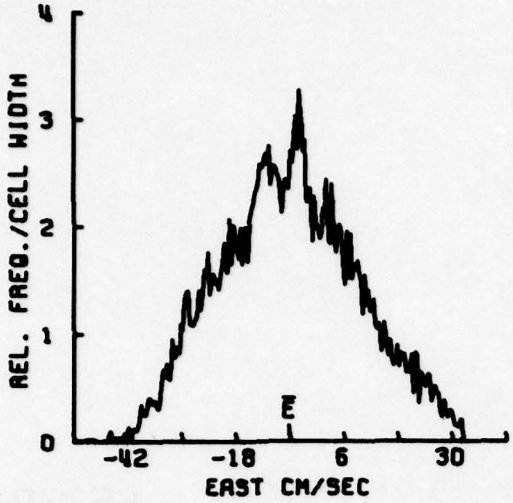
SURFACE MOORING/ 15 M./VMCM=4 6523B120A

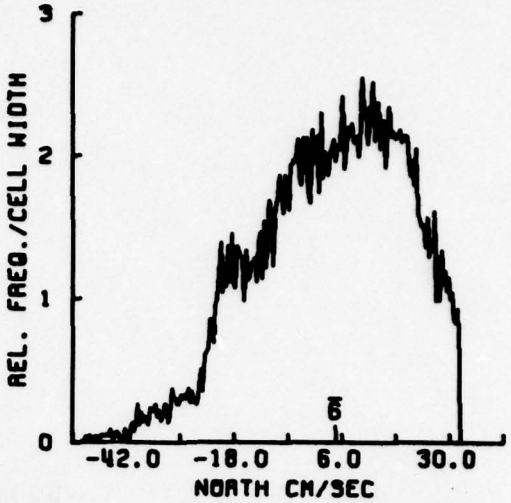


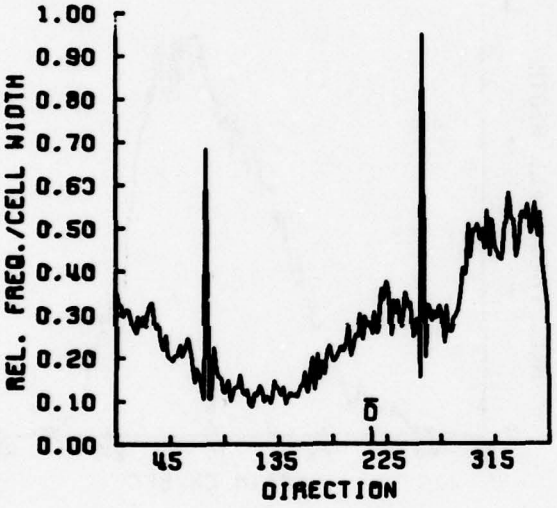


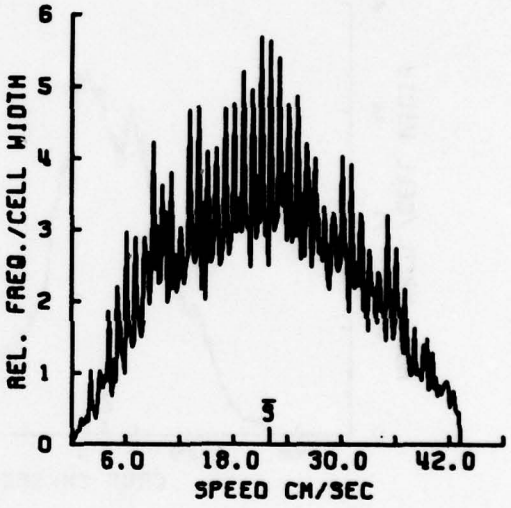


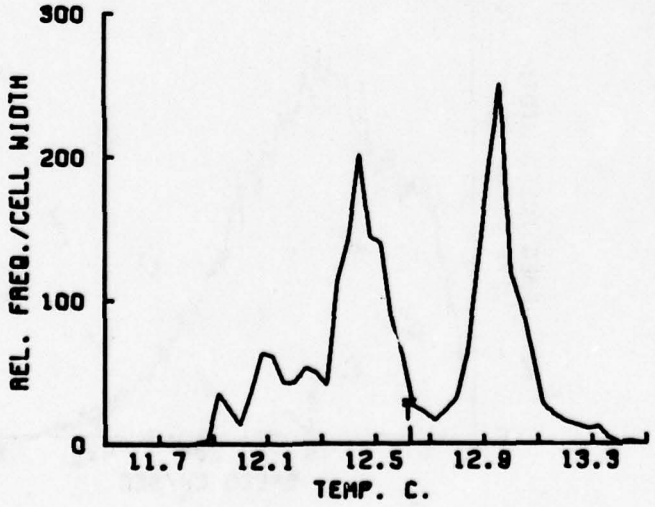


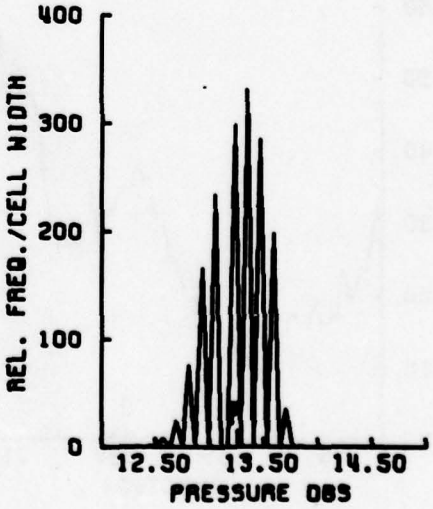

REL. FREQ./CELL WIDTH
0
1
2
3
4
-42
-18
6
30
EAST CM/SEC


REL. FREQ./CELL WIDTH
0
1
2
3
-42.0
-18.0
6.0
30.0
NORTH CM/SEC


REL. FREQ./CELL WIDTH
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
0.80
0.90
1.00
45
135
225
315
DIRECTION

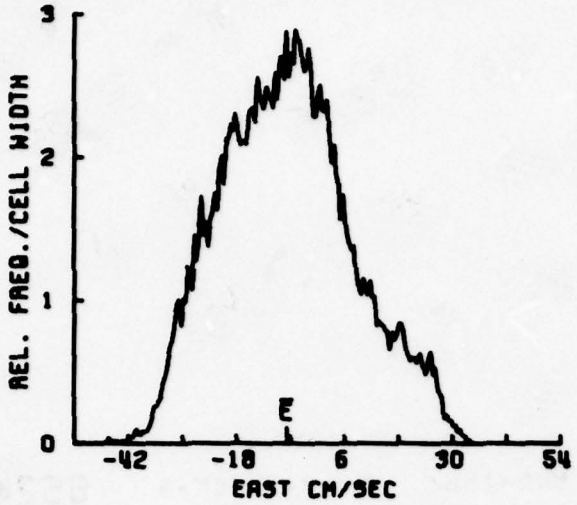

REL. FREQ./CELL WIDTH
0
1
2
3
4
5
6
6.0
18.0
30.0
42.0
SPEED CM/SEC

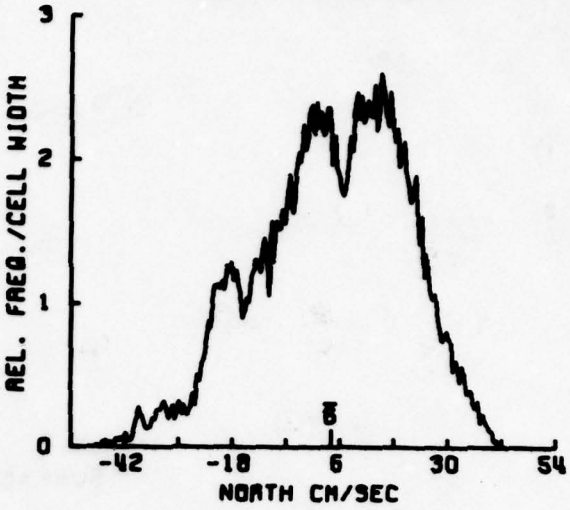

REL. FREQ./CELL WIDTH
0
100
200
300
11.7
12.1
12.5
12.9
13.3
TEMP. C.

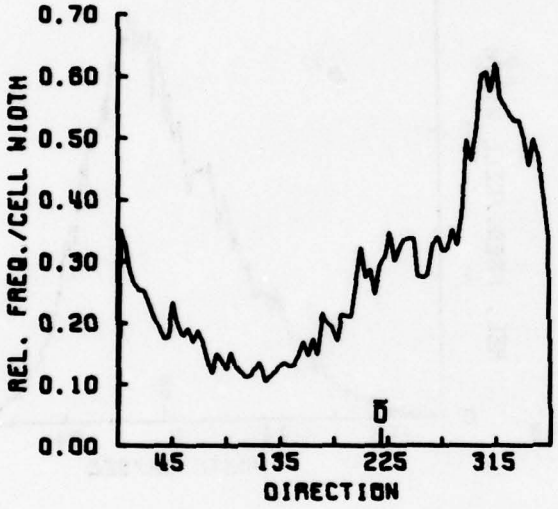

REL. FREQ./CELL WIDTH
0
100
200
300
400
12.50
13.50
14.50
PRESSURE OBS

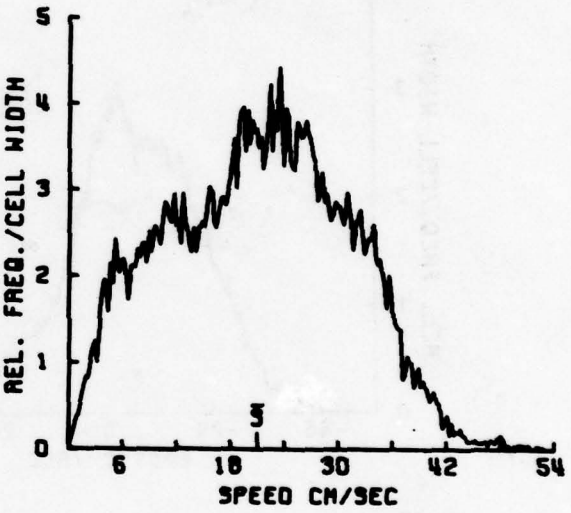
SPAR MOORING/ 17 M./V-433

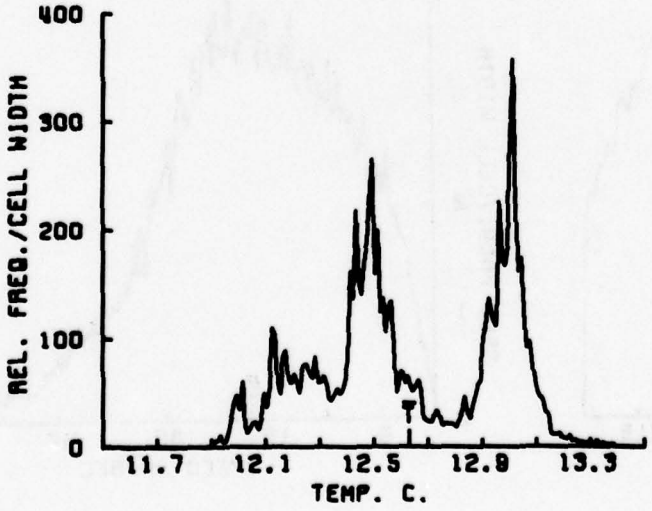
6532B112.5

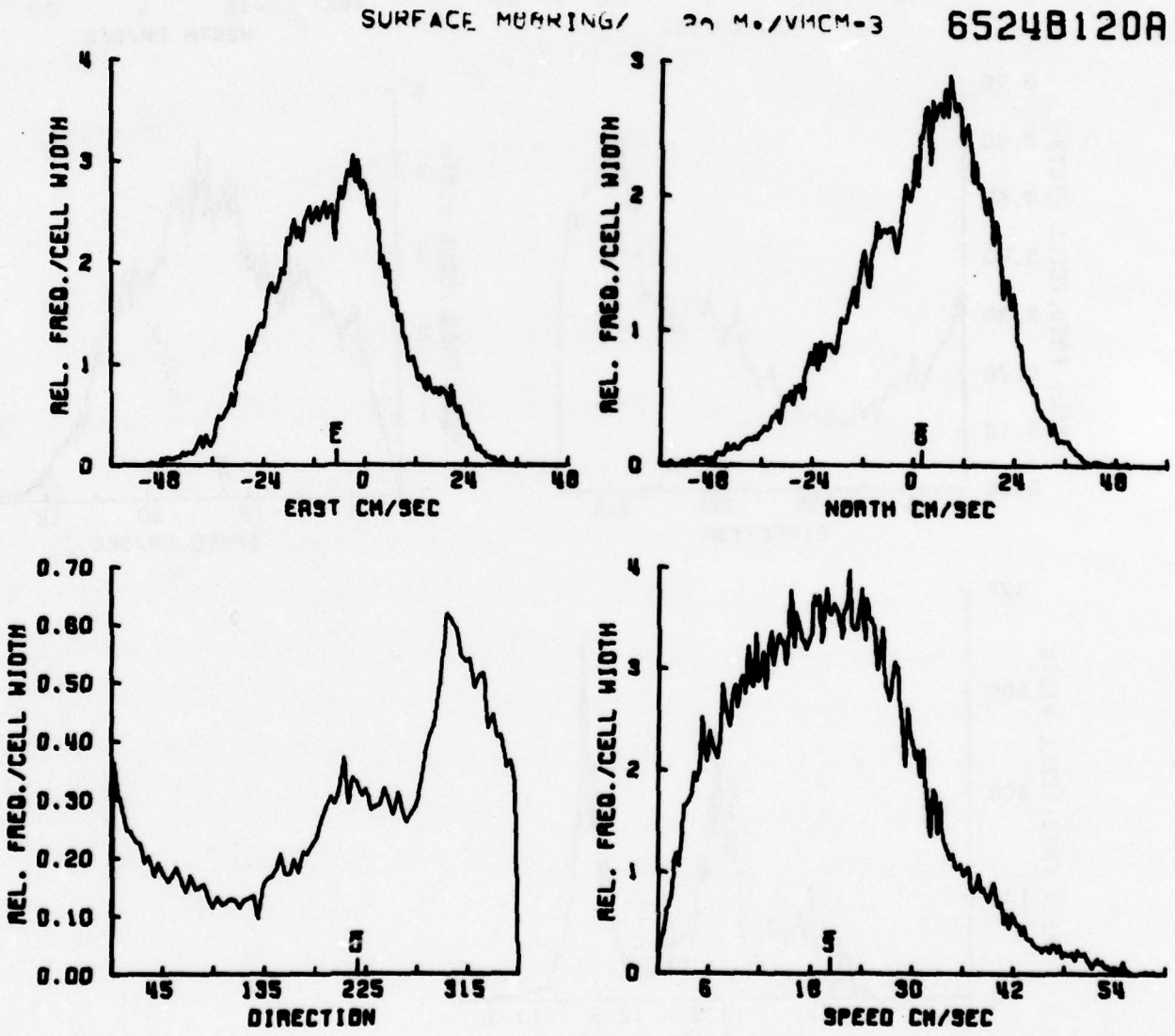




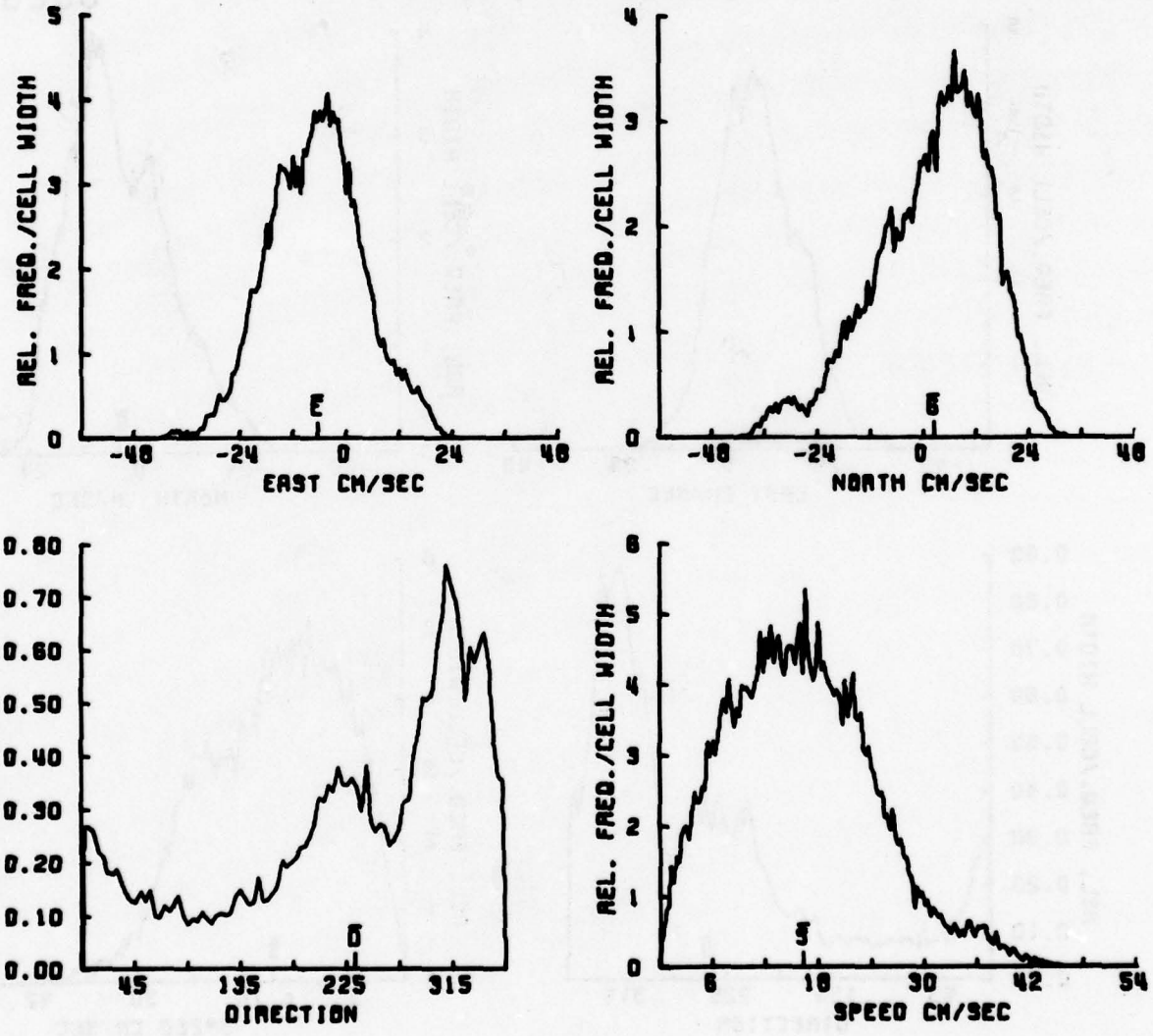


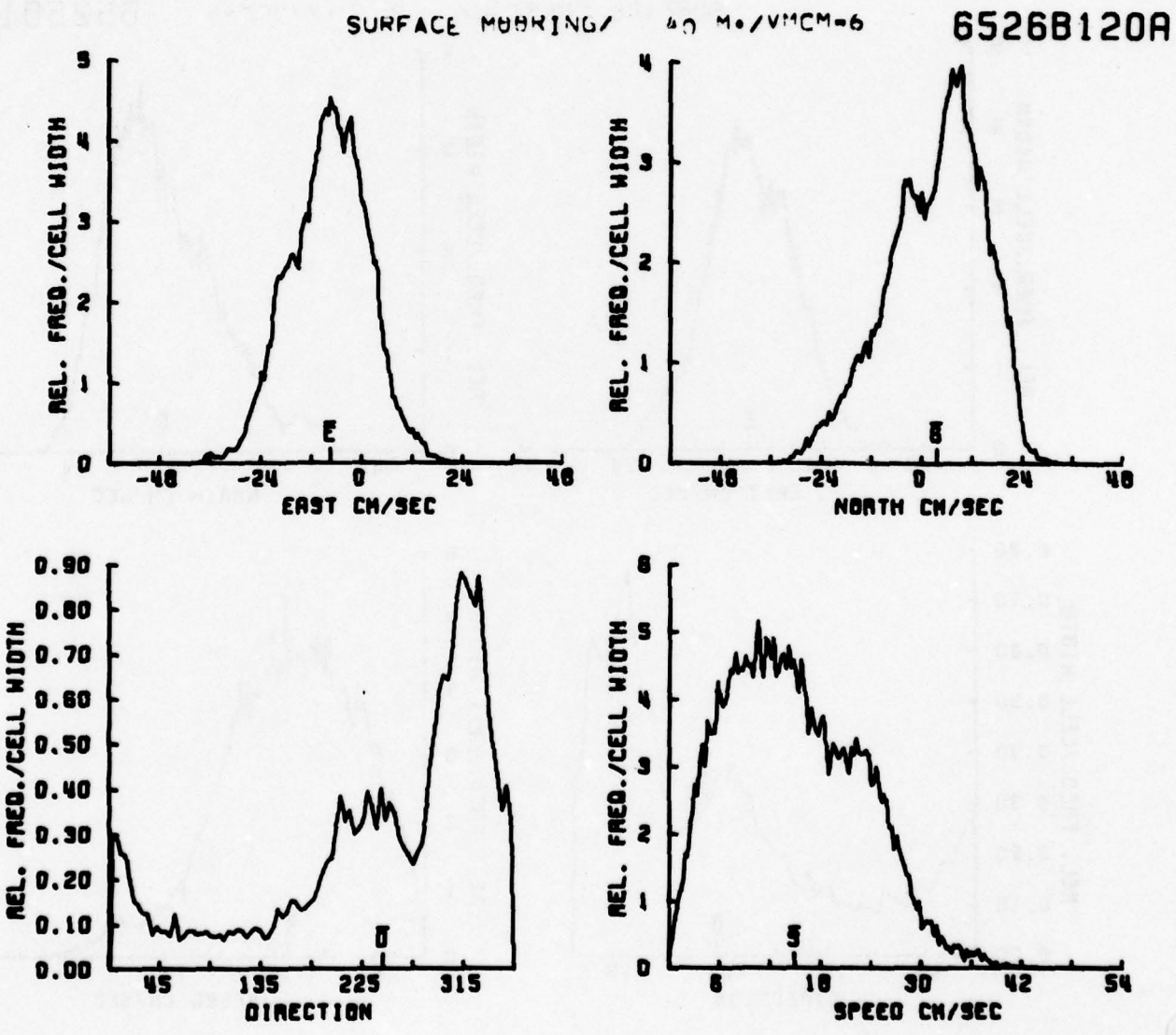




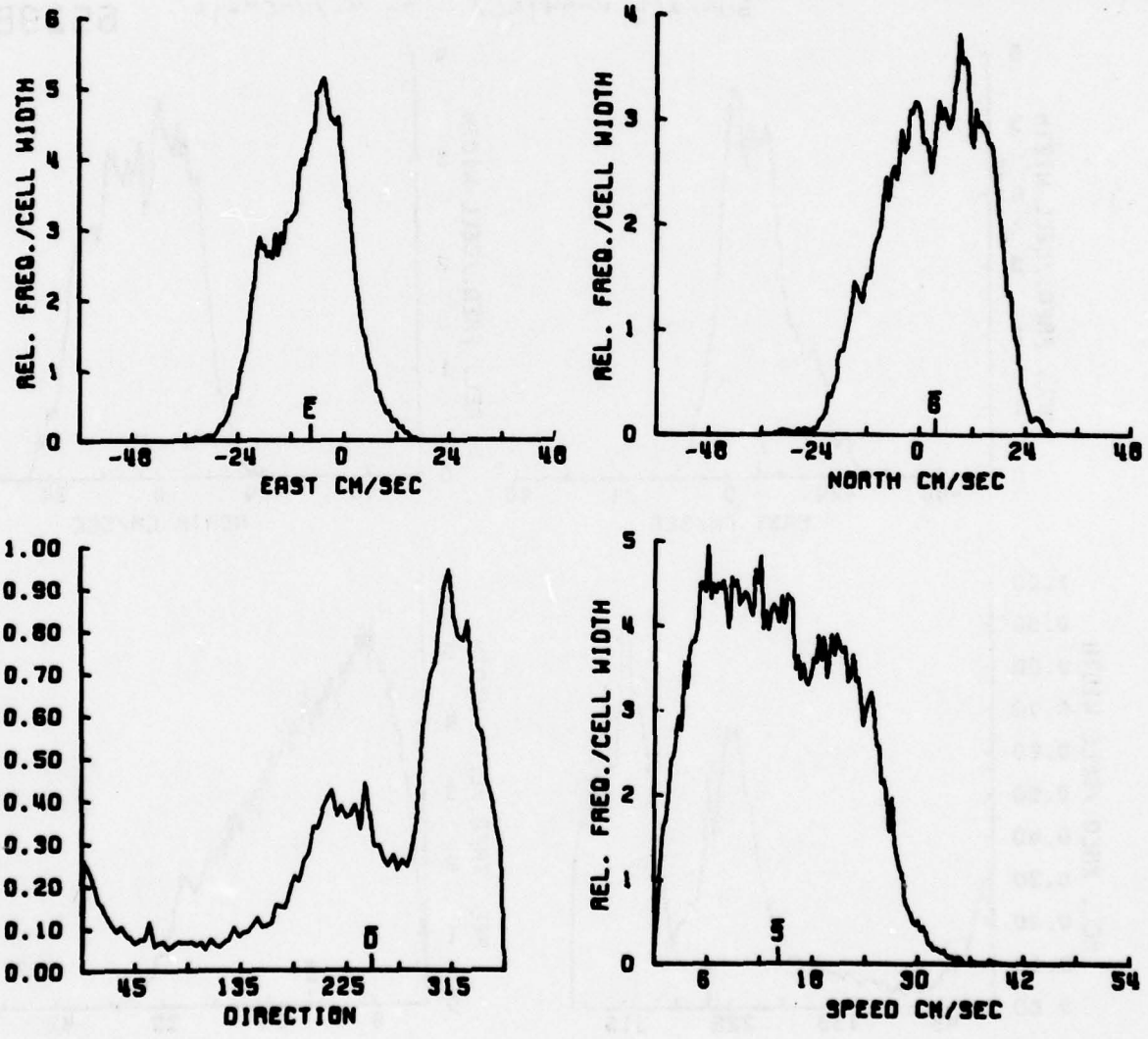

SURFACE MOORING/ 30 M./VMCM-3
6524B120A
REL. FREQ./CELL WIDTH
EAST CM/SEC
NORTH CM/SEC
DIRECTION
SPEED CM/SEC
-48
-24
0
24
48
45
135
225
315
6
18
30
42
54
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70

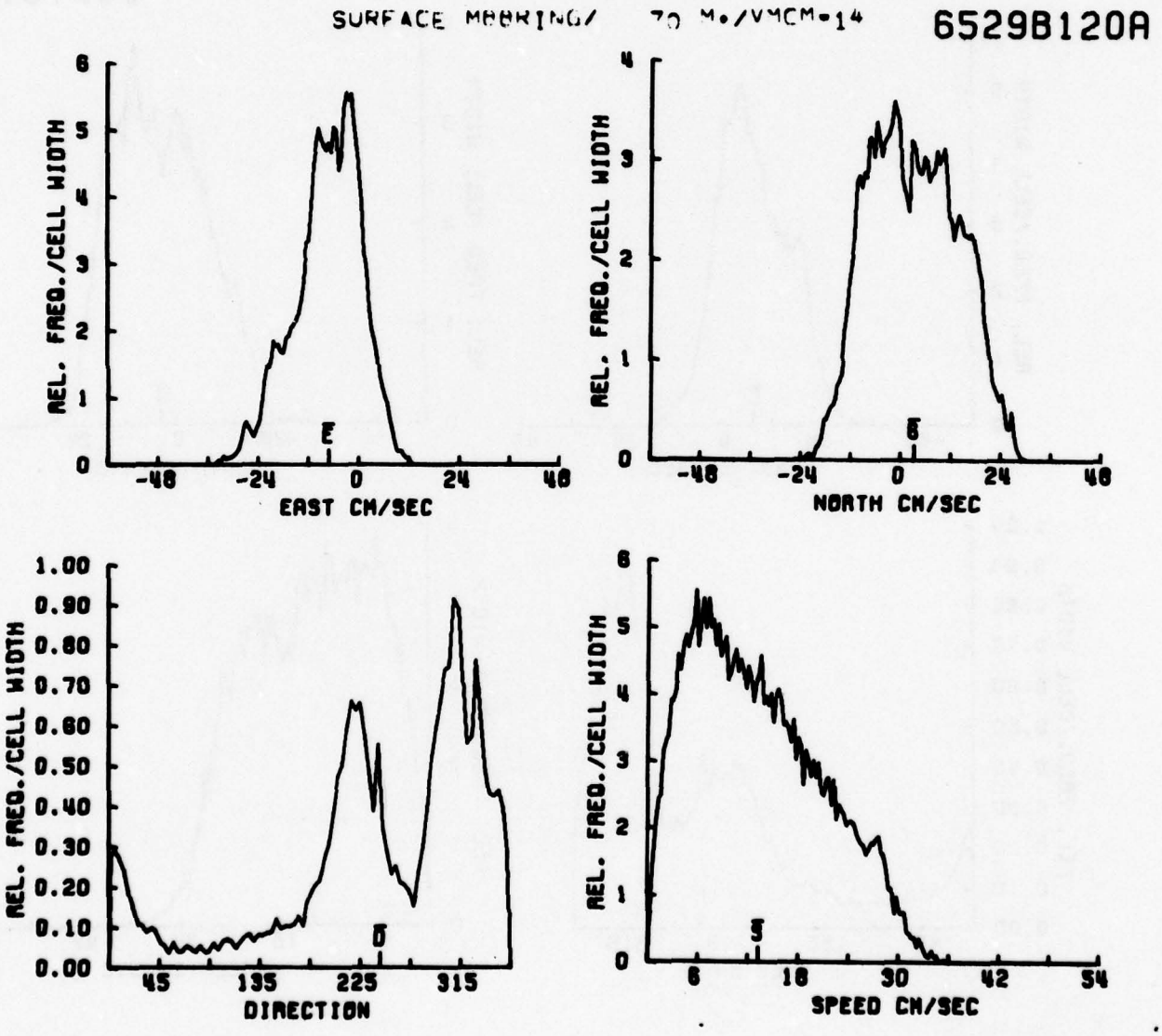
SURFACE MOORING/ 30 M•/VMCM-8 6525B120A

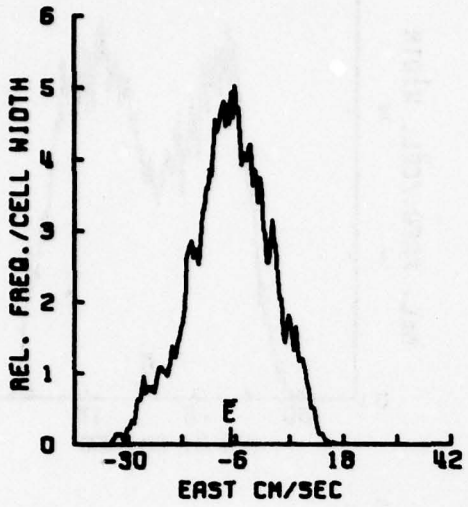


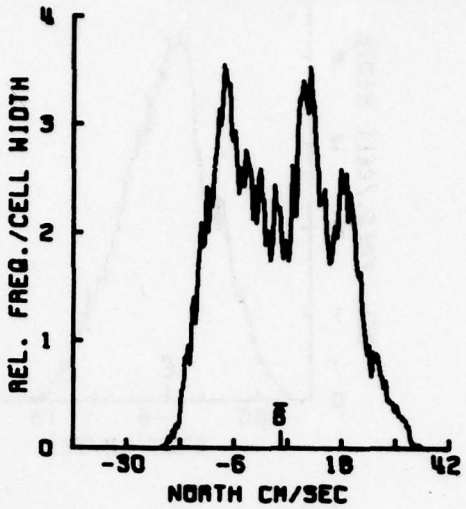

SURFACE MOORING/ 40 M•/VMCM=6
6526B120A
REL. FREQ./CELL WIDTH
EAST CM/SEC
NORTH CM/SEC
DIRECTION
SPEED CM/SEC
E
N
D
S

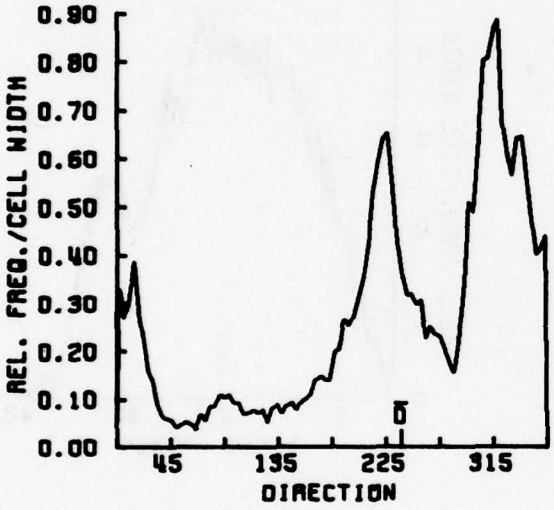
SURFACE MOORING/ 50 M./VMCM-7 65278120A

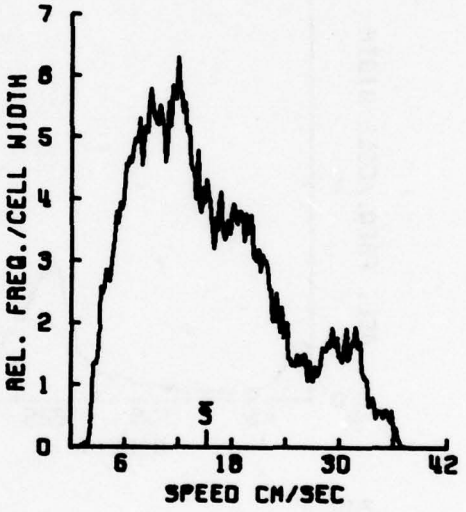


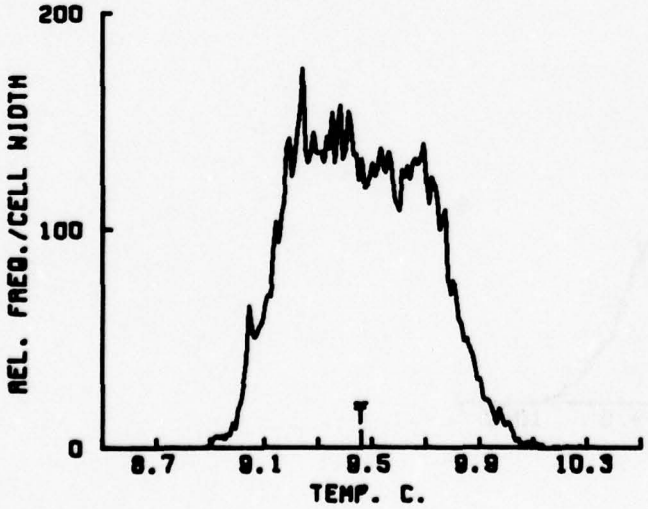

SURFACE MOORING/ 70 M./VMCM=14
6529B120A
REL. FREQ./CELL WIDTH
EAST CM/SEC
NORTH CM/SEC
DIRECTION
SPEED CM/SEC
E
N
D
S

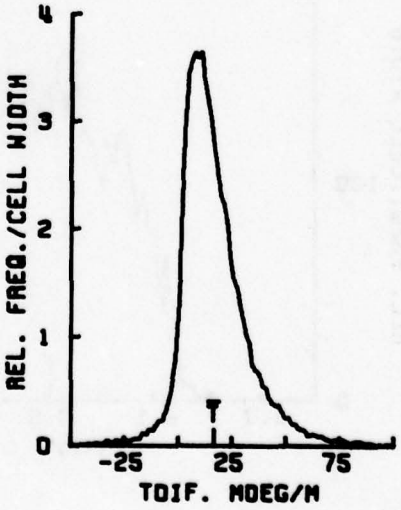

REL. FREQ./CELL WIDTH
0
1
2
3
4
5
6
E
-30
-6
18
42
EAST CM/SEC


REL. FREQ./CELL WIDTH
0
1
2
3
4
N
-30
-6
18
42
NORTH CM/SEC

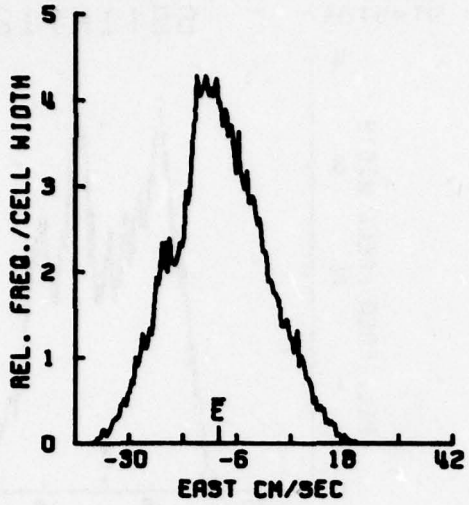

REL. FREQ./CELL WIDTH
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
0.80
0.90
D
45
135
225
315
DIRECTION

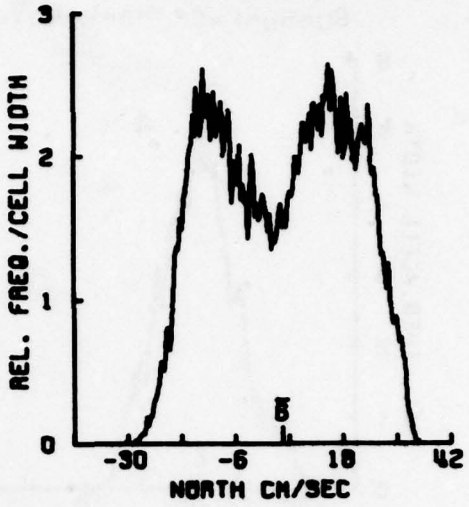

REL. FREQ./CELL WIDTH
0
1
2
3
4
5
6
7
S
6
18
30
42
SPEED CM/SEC

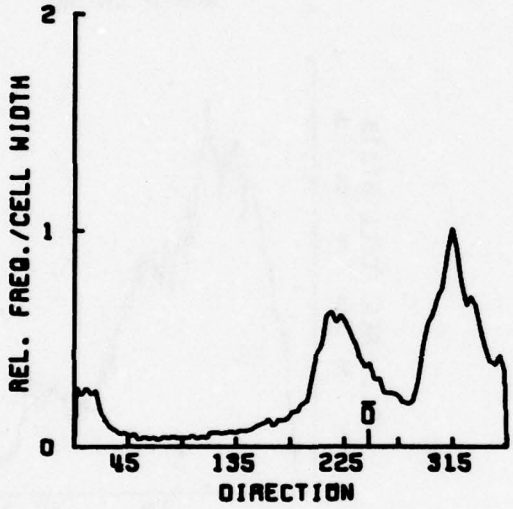

REL. FREQ./CELL WIDTH
0
100
200
T
8.7
9.1
9.5
9.9
10.3
TEMP. C.

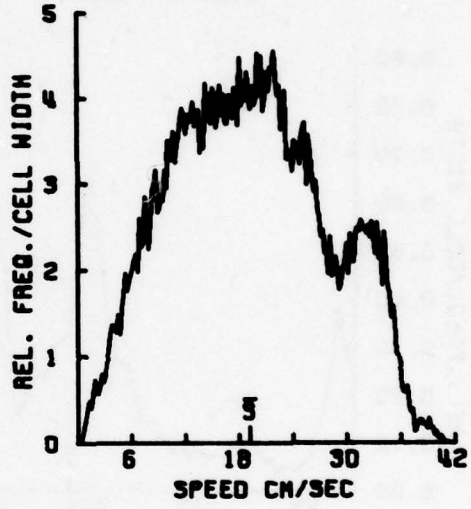

REL. FREQ./CELL WIDTH
0
1
2
3
4
T
-25
25
75
TDIF. MDEG/M

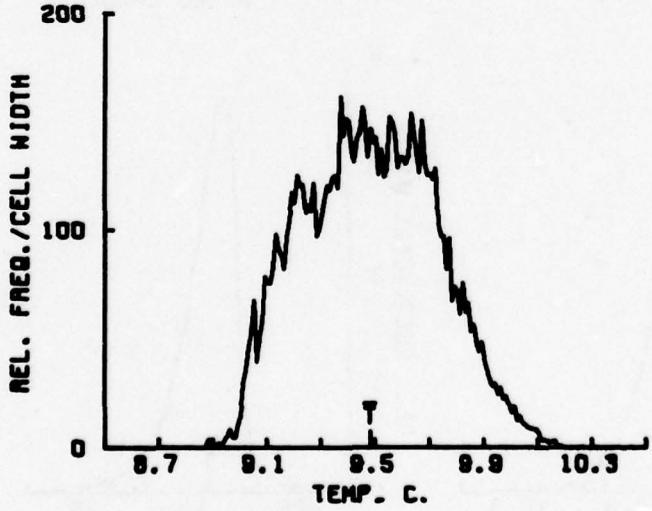
SURFACE MOORING/ 79 M•/V-436 652,10A112.5

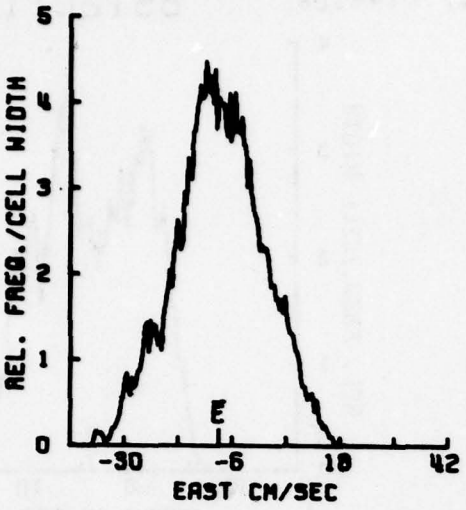


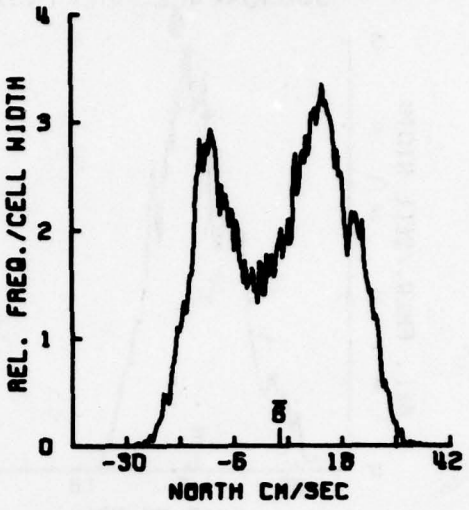


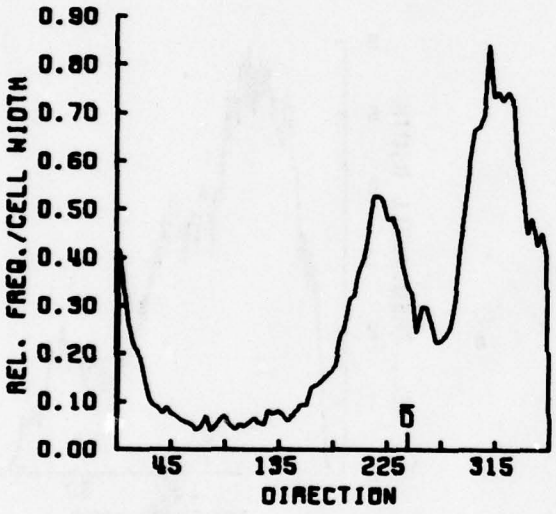


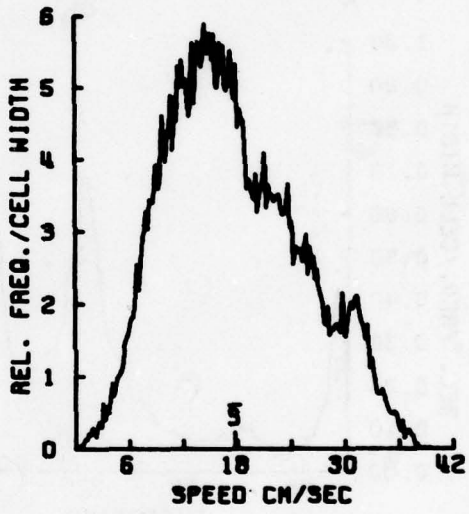


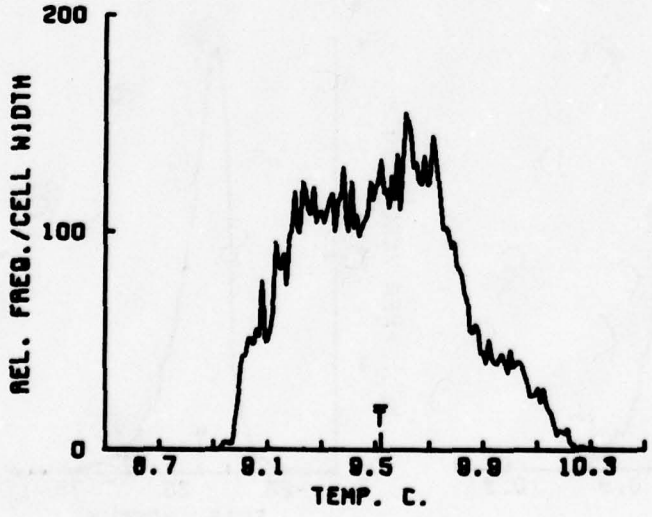



REL. FREQ./CELL WIDTH
0
1
2
3
4
5
E
-30
-6
18
42
EAST CM/SEC

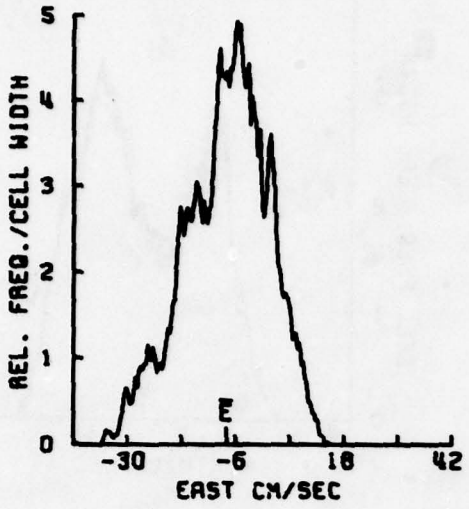

REL. FREQ./CELL WIDTH
0
1
2
3
4
N
-30
-6
18
42
NORTH CM/SEC

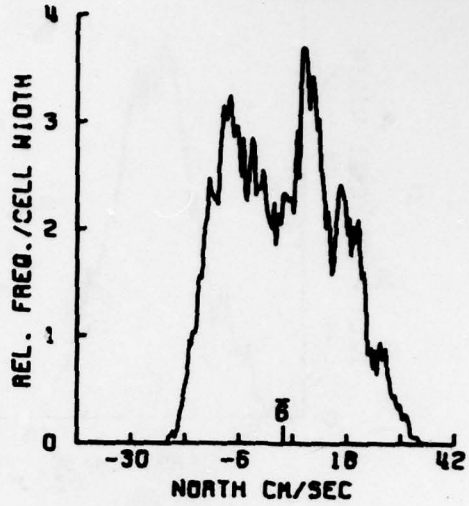

REL. FREQ./CELL WIDTH
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
0.80
0.90
D
45
135
225
315
DIRECTION

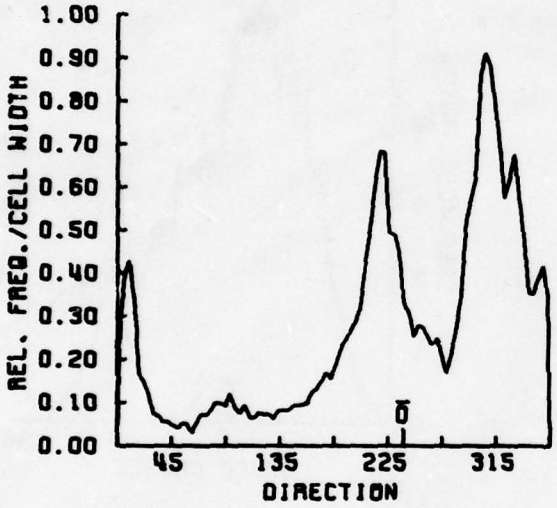

REL. FREQ./CELL WIDTH
0
1
2
3
4
5
6
S
6
18
30
42
SPEED CM/SEC

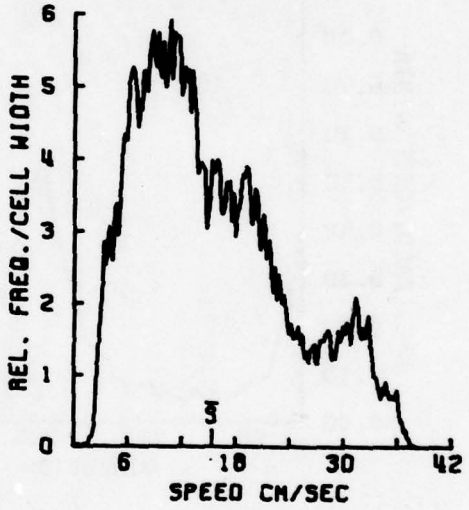

REL. FREQ./CELL WIDTH
0
100
200
T
8.7
9.1
9.5
9.9
10.3
TEMP. C.

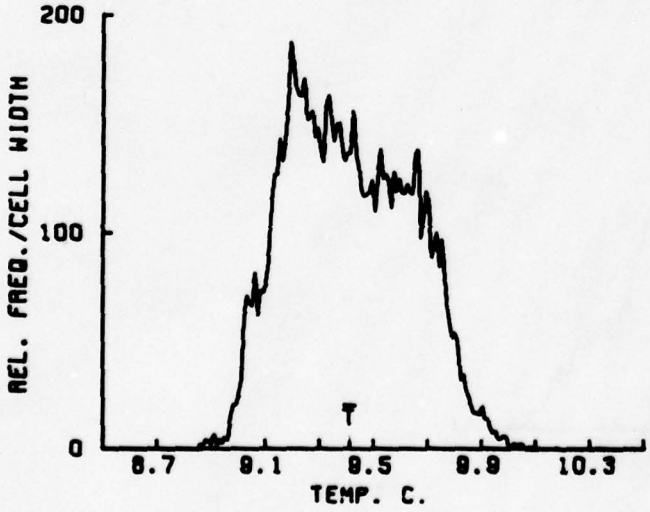
SUBSURFACE MOORING/ 82 M./ DT-5106 6512C112.5

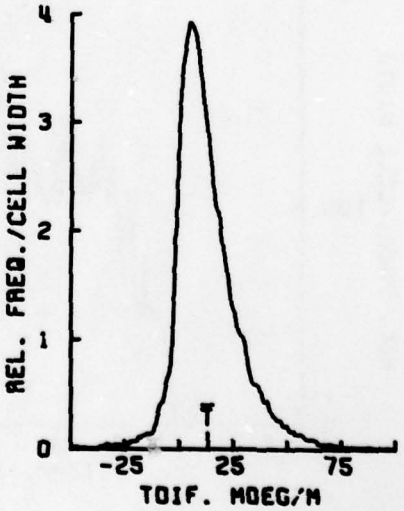




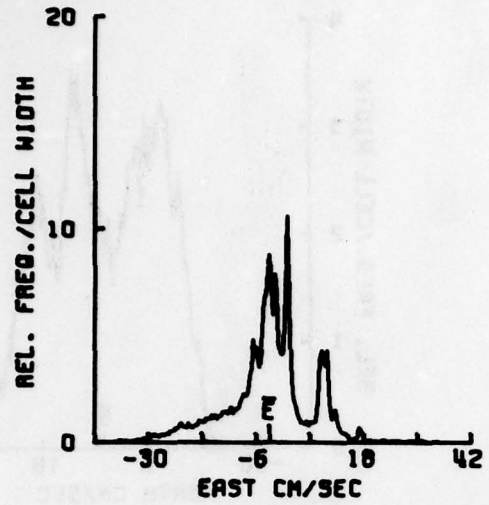


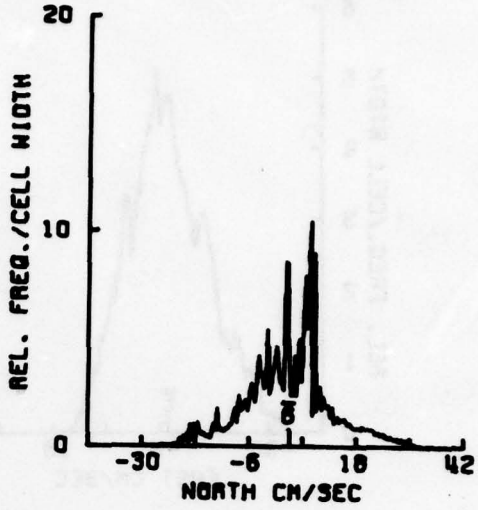


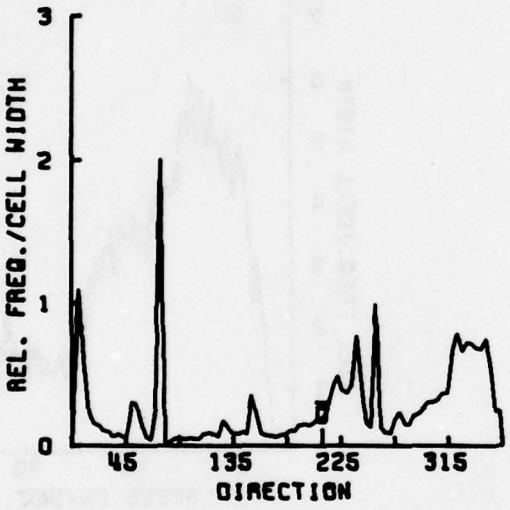


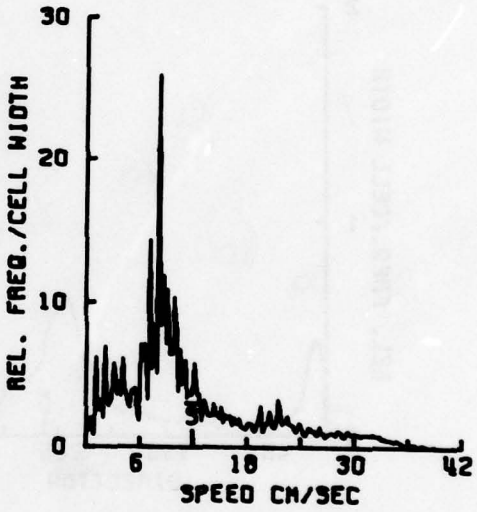


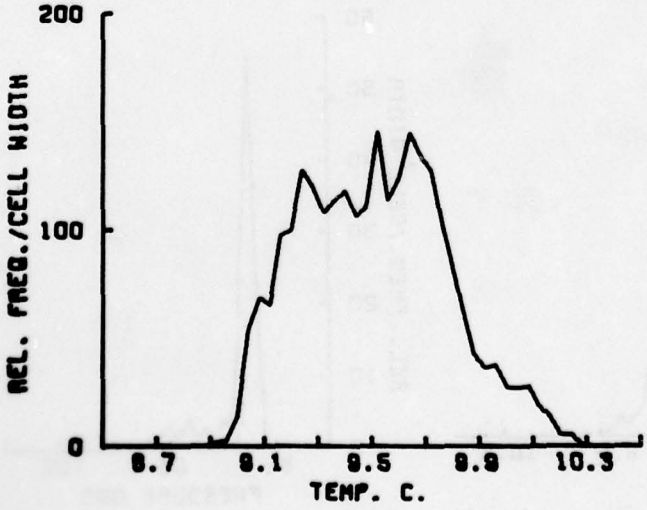
SPAR MOORING/ 82 M./ACM-1 65370



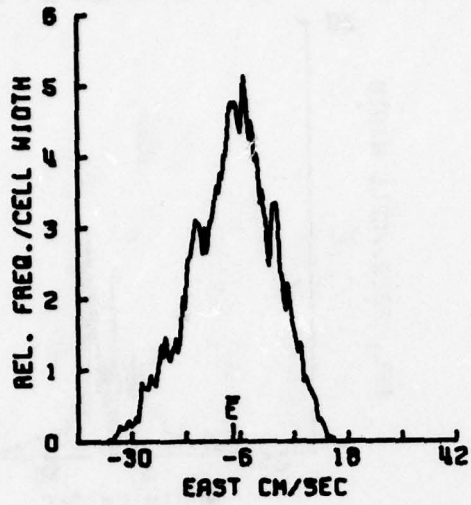


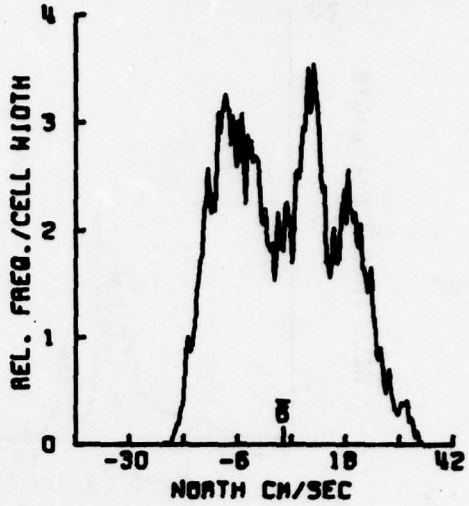


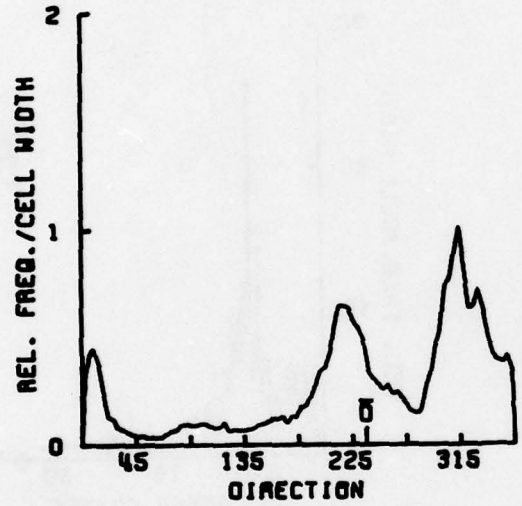


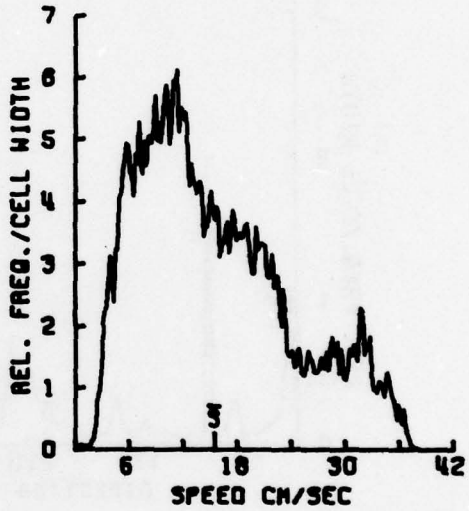


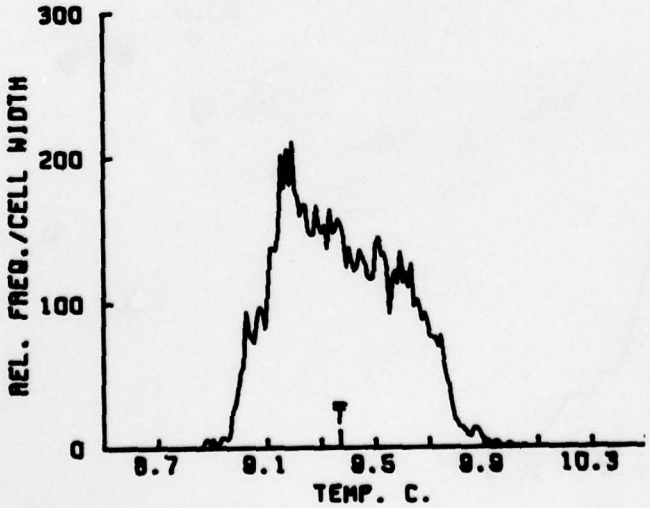
SUBSURFACE MOORING/ 85 M./ V-326P 65138112.5

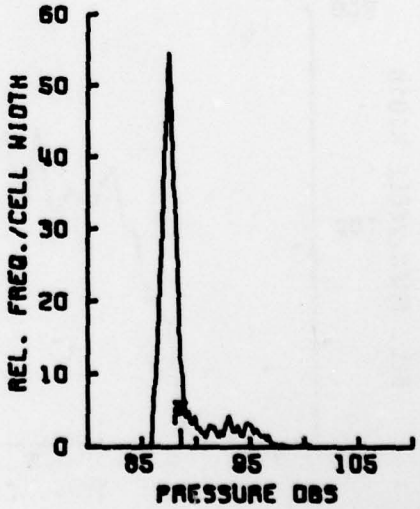


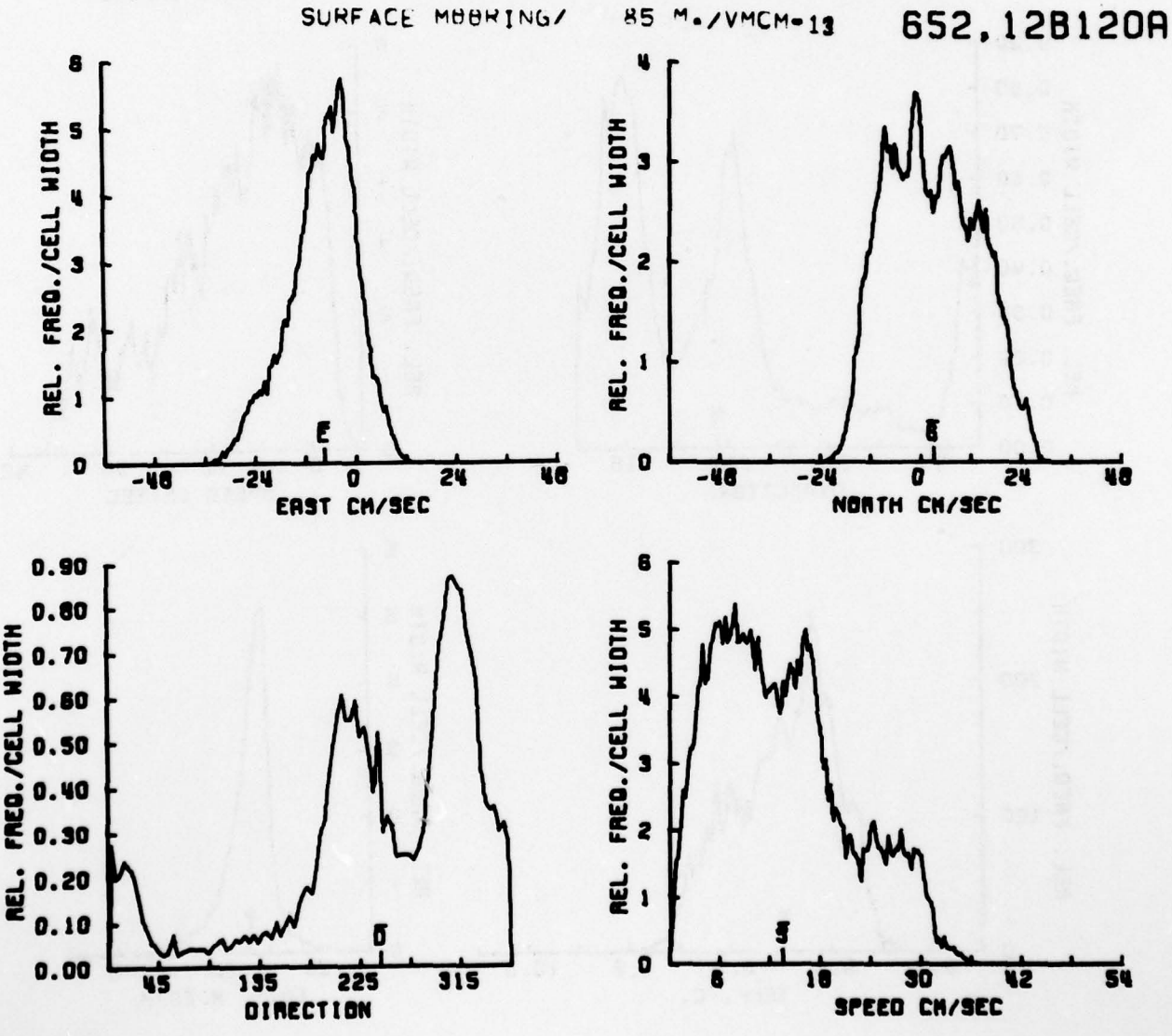




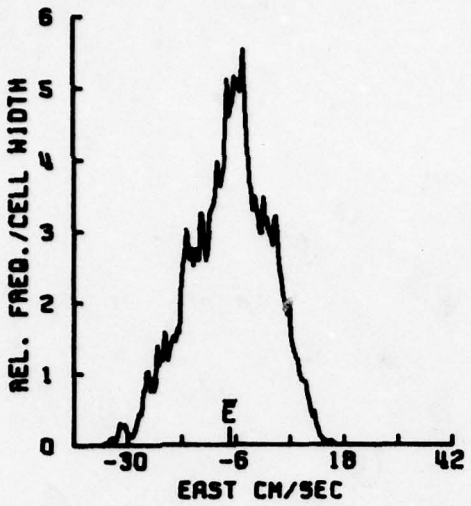


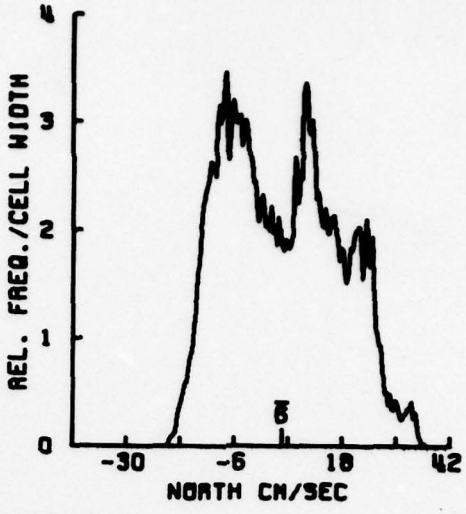


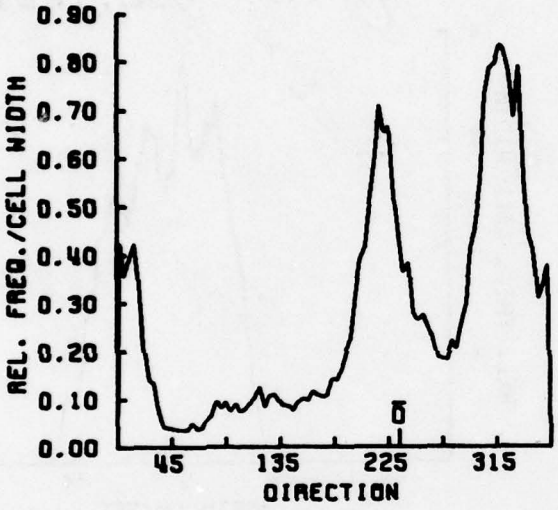


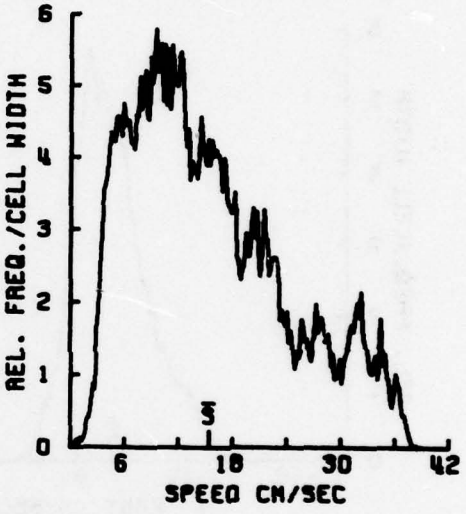

SURFACE MOORING/ 85 M./VMCM-13
652,12B120A
REL. FREQ./CELL WIDTH
EAST CM/SEC
NORTH CM/SEC
DIRECTION
SPEED CM/SEC

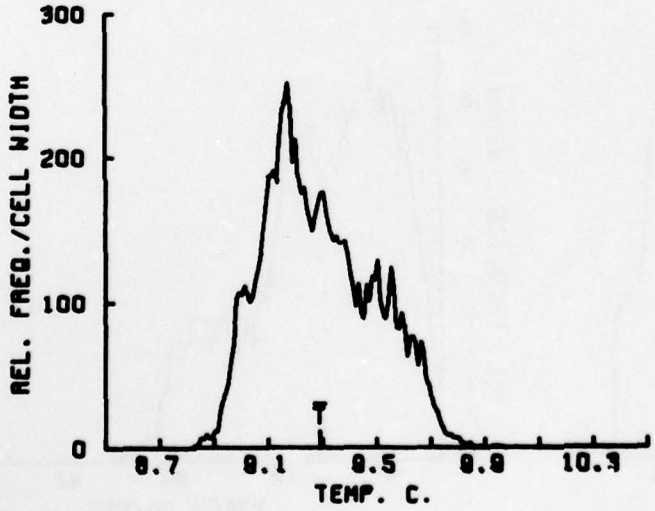
SUBSURFACE MABRING/ 91 M./ DT-5107 6515C112.5

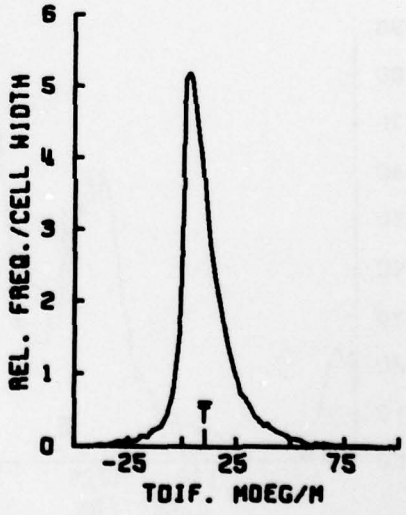




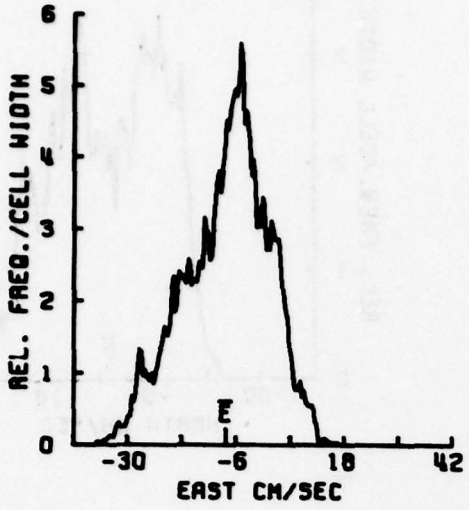


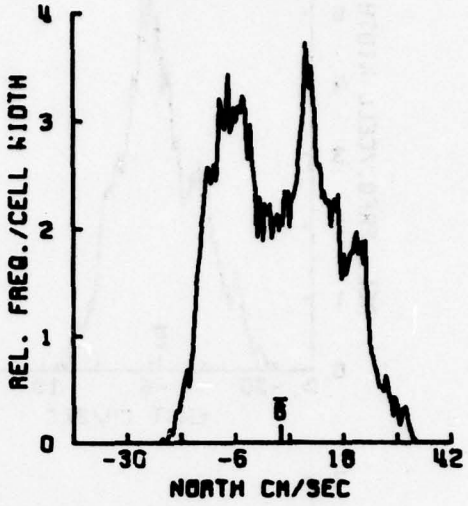


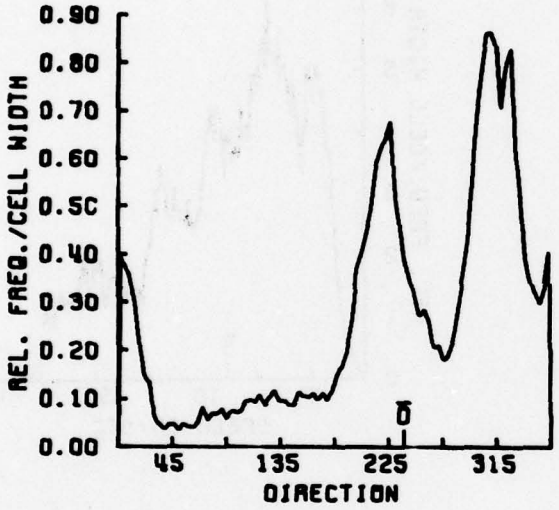


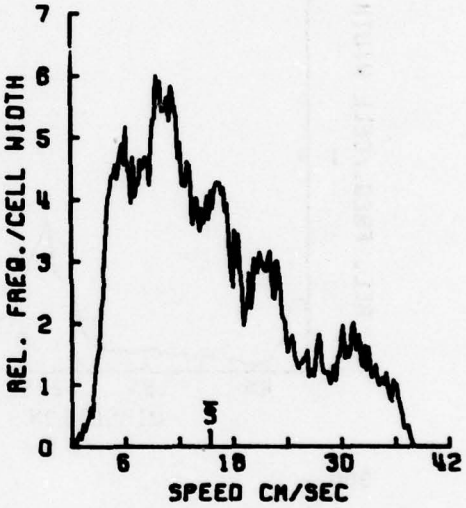


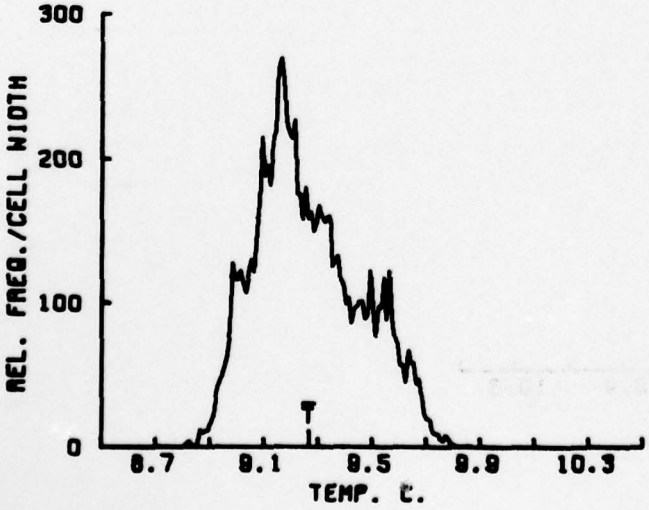
SUBSURFACE MOORING/ 94 M./ V=177 6516F112.5



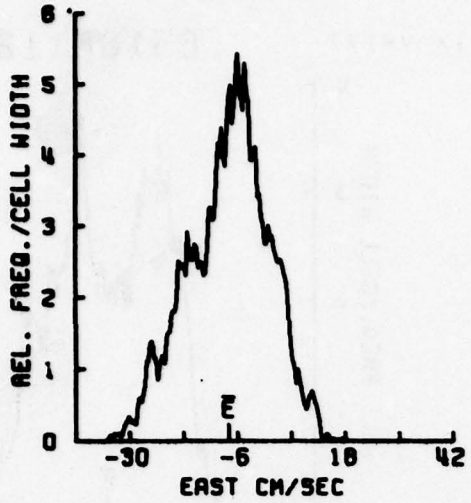


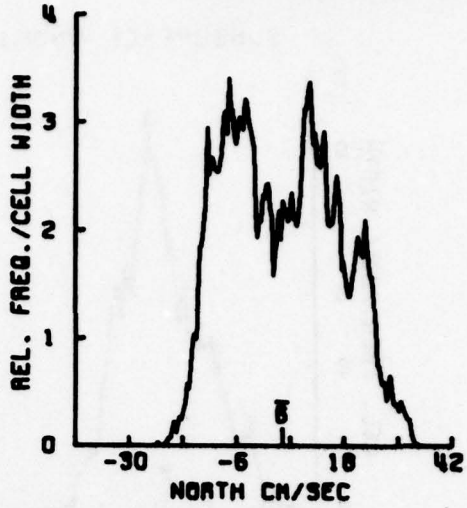


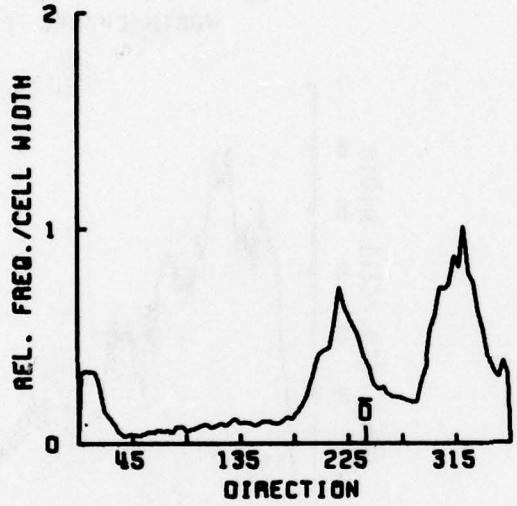


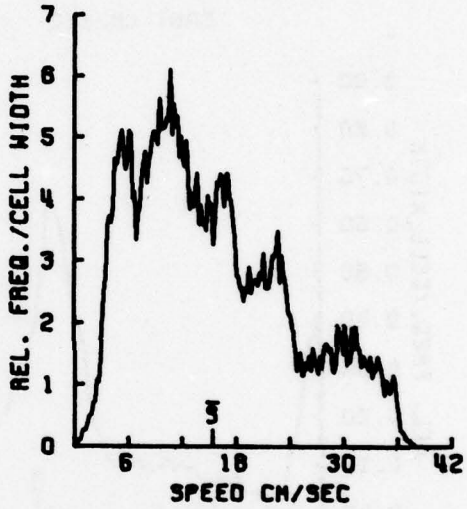


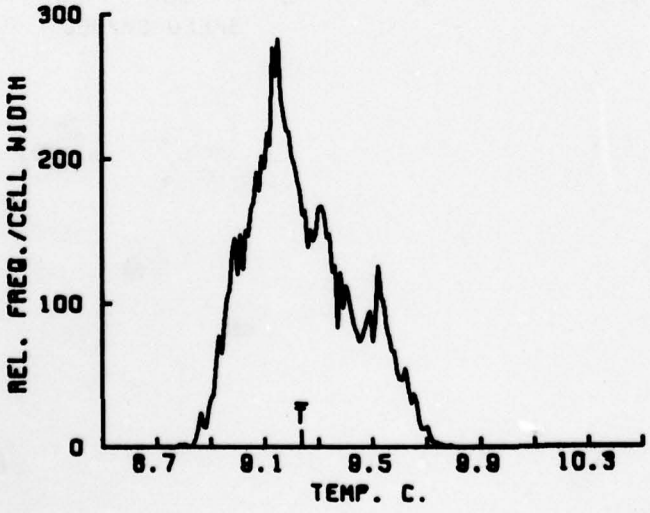
SUBSURFACE MOORING/ 97 M./ V=386 6517C112.5



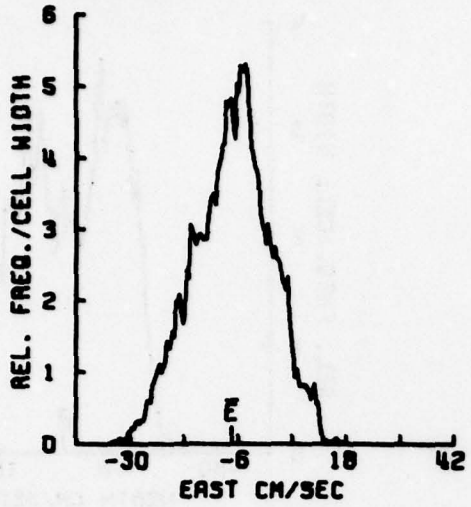


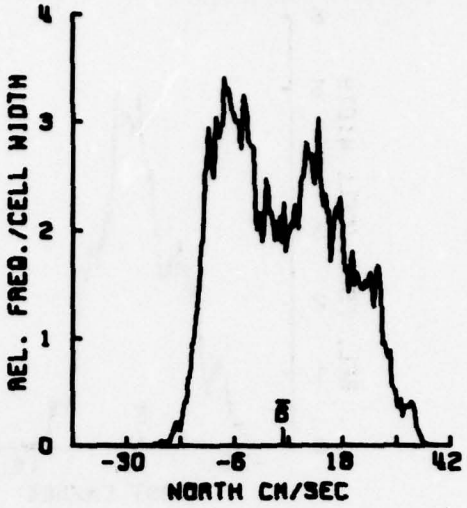


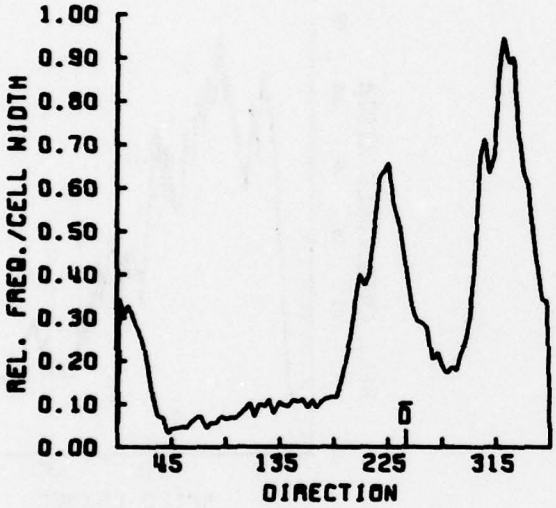


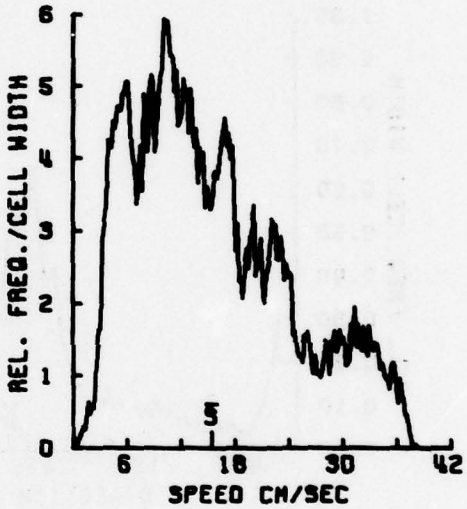


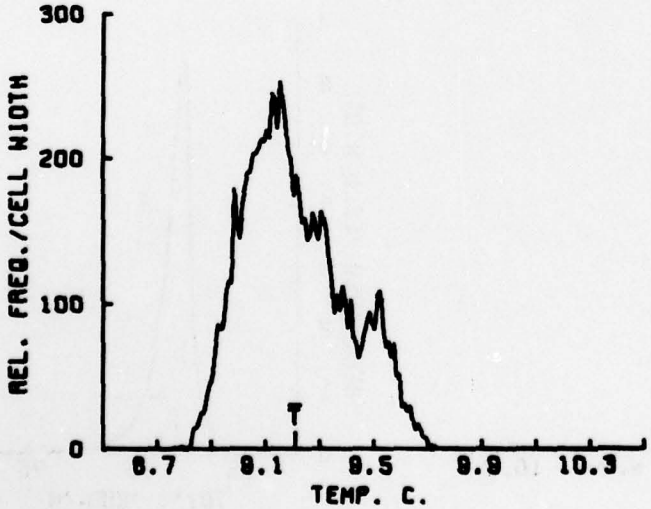
SUBSURFACE MOORING/ 100 M./ DT=5108 6518A112.5

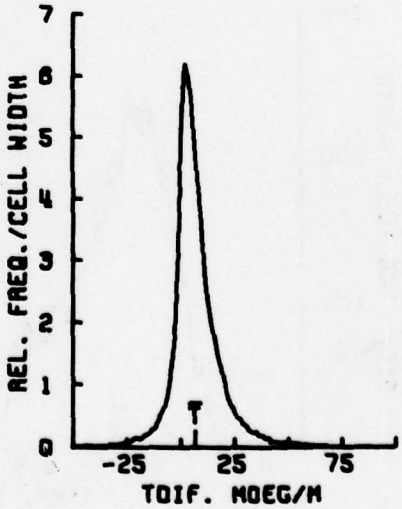






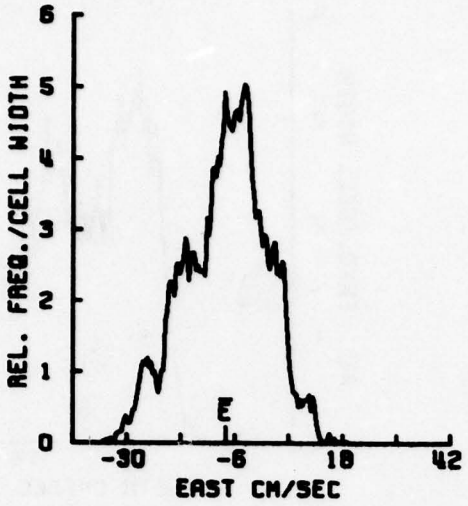


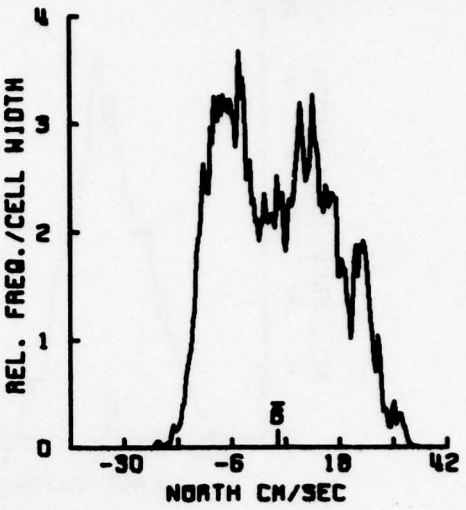


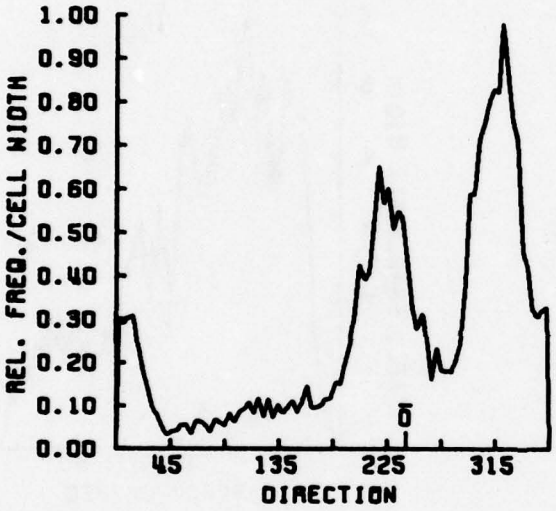


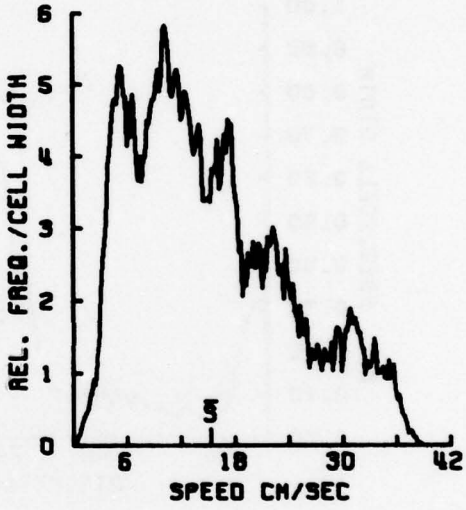
18:22 DEC 19,'70

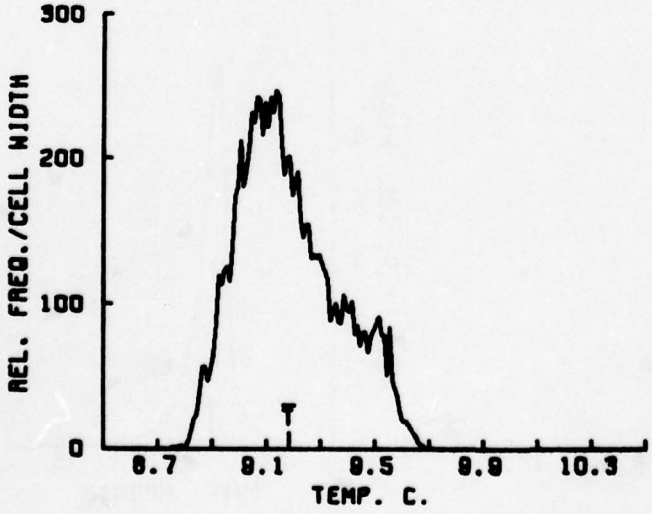
SUBSURFACE MOORING/ 103 M./ DT=5109 6519A112.5

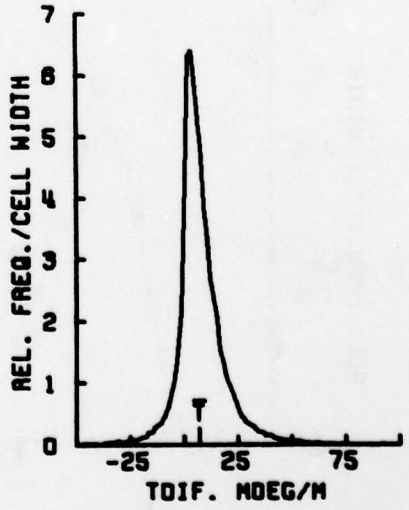




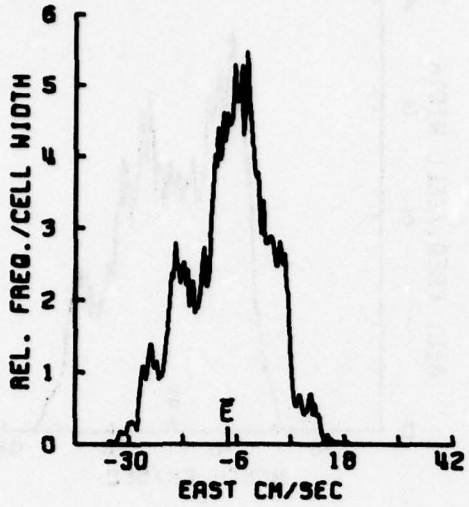


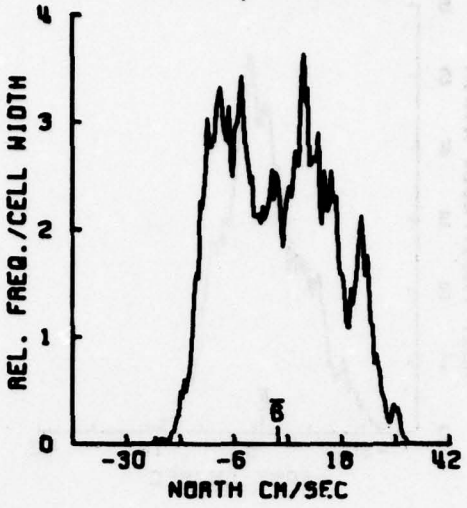


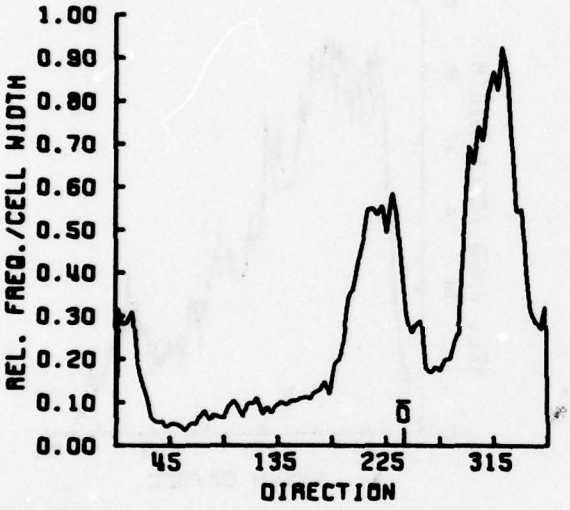


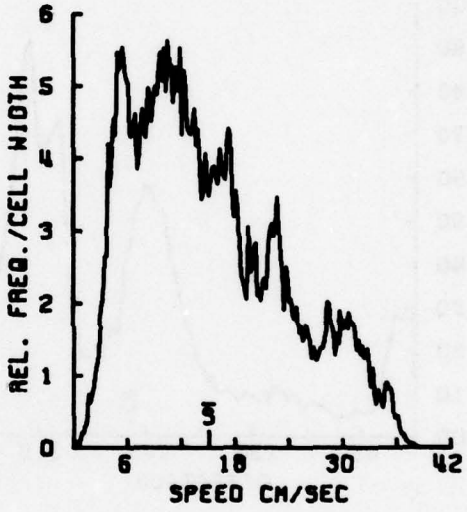


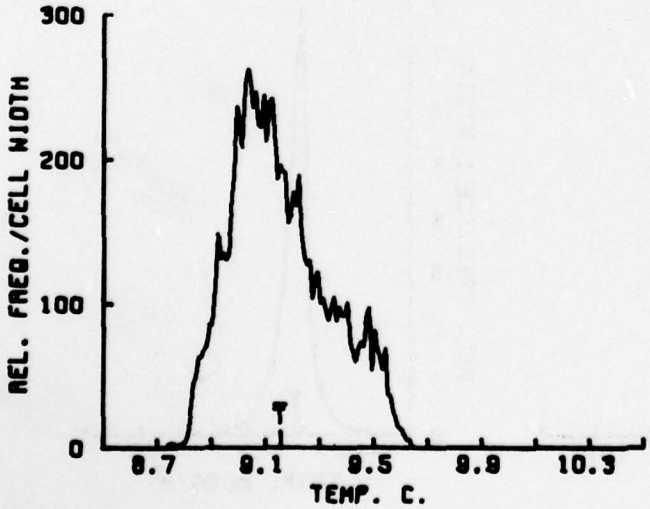
SUBSURFACE MOORING/ 106 M./ V-373 651,10C112.5



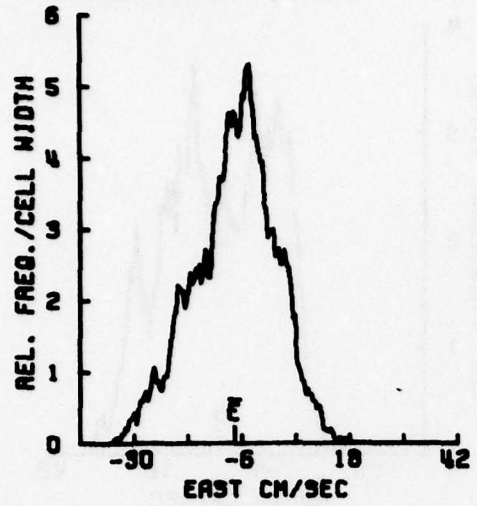


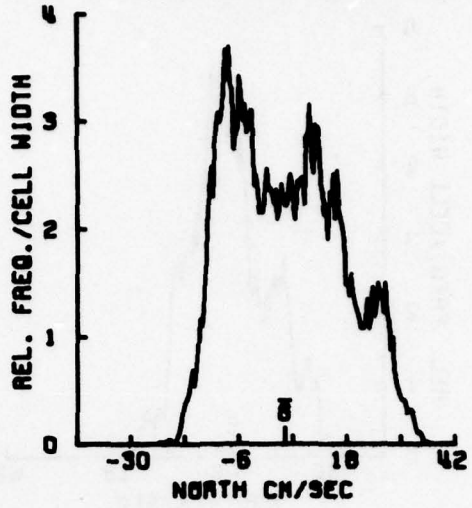


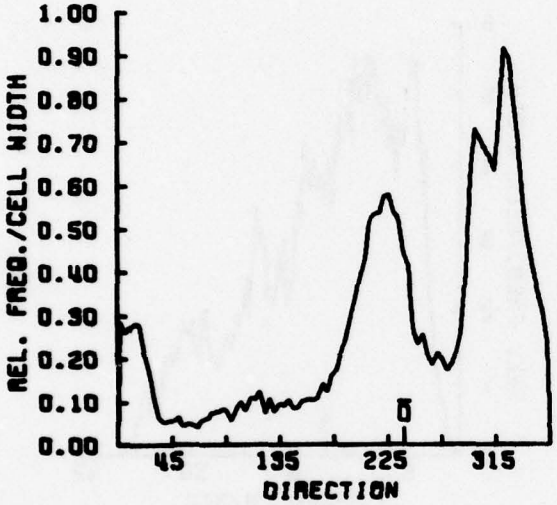


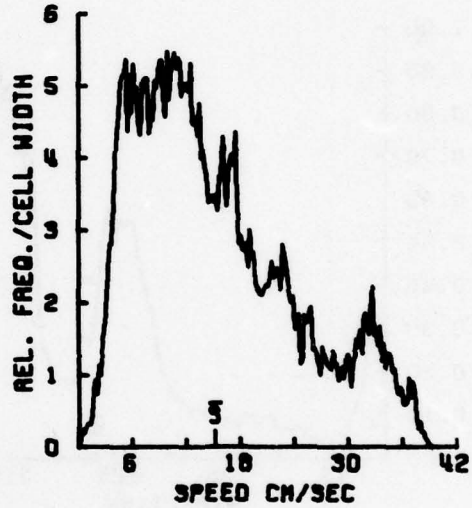


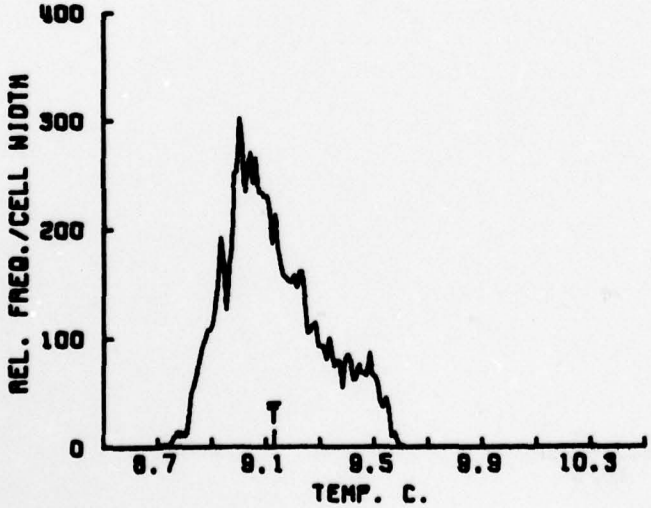
SUBSURFACE MOORING/ 112 M./ DT=5114 651,12A112.5

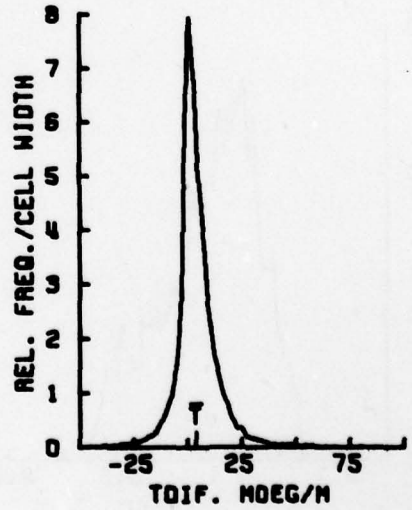




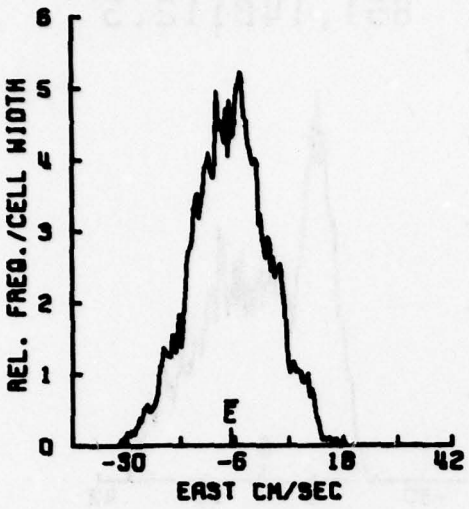


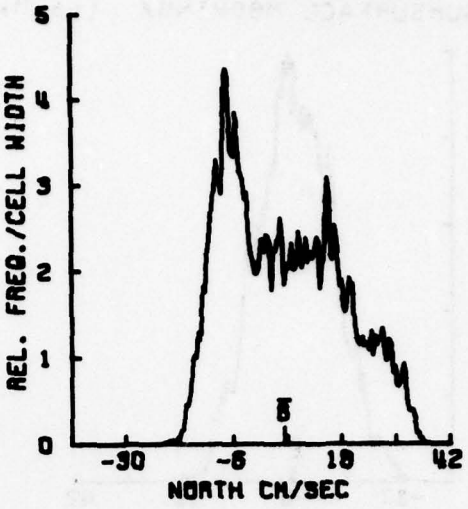


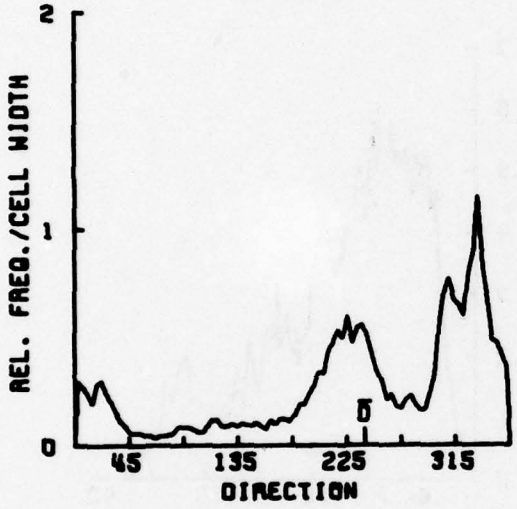


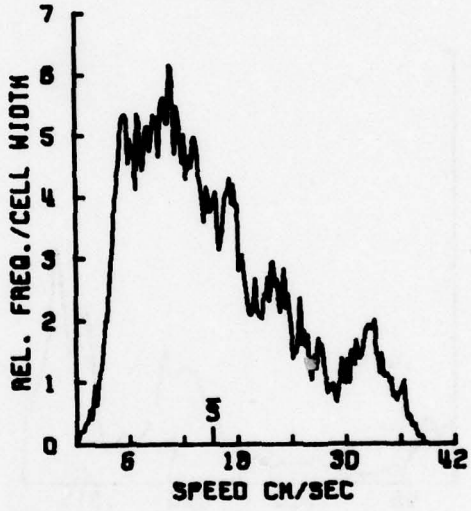


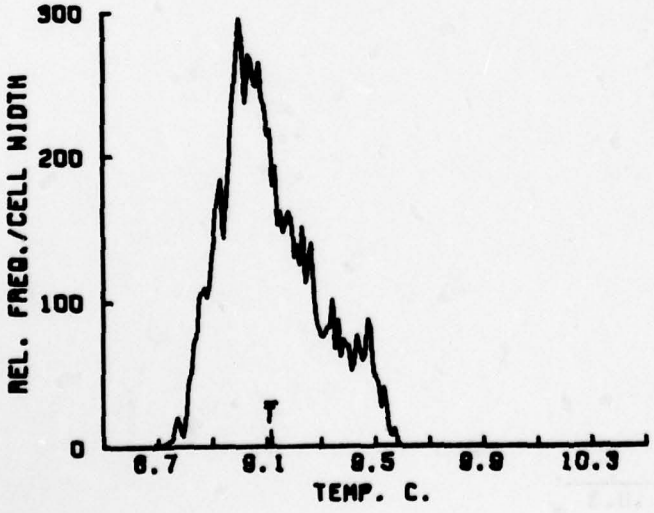
SUBSURFACE MOORING/ 115 M./ V=101 651,13B112.5



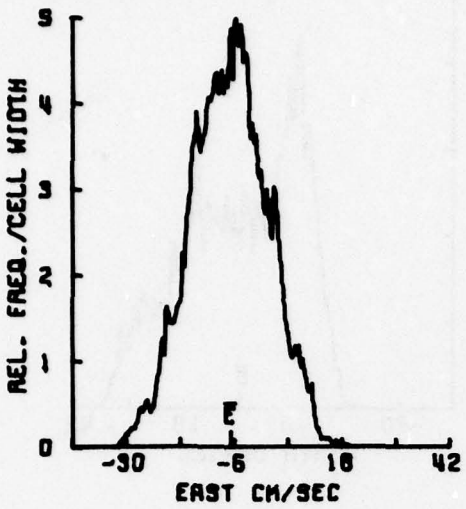


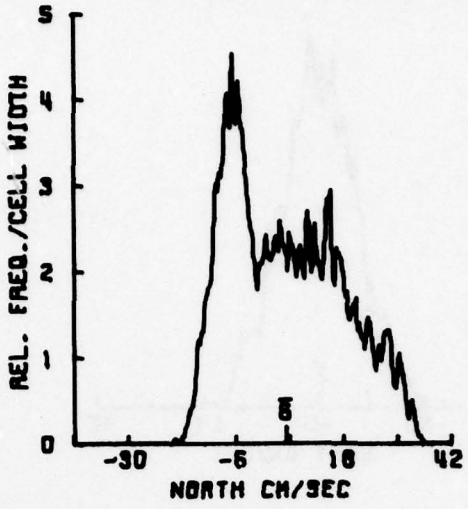


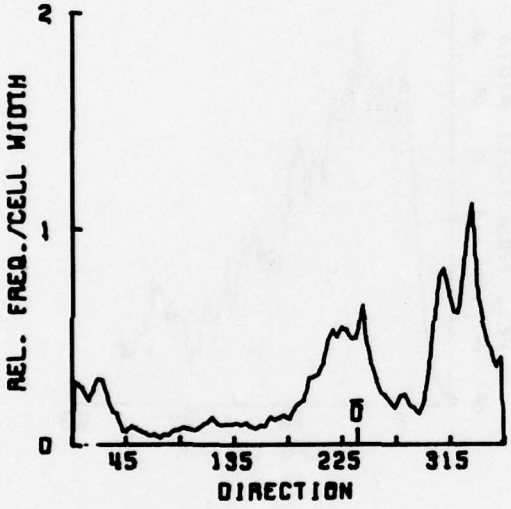


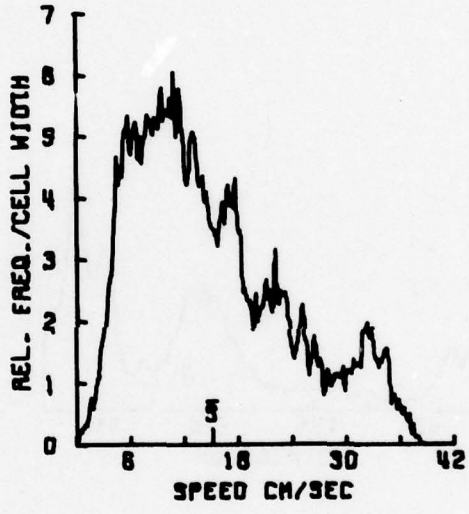


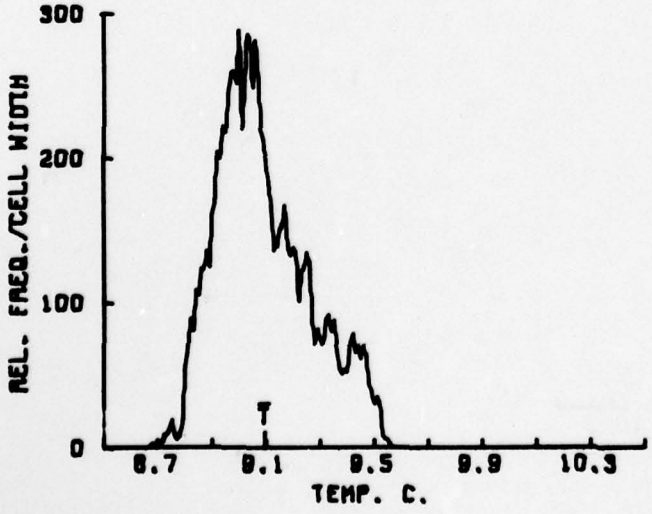
SUBSURFACE MOORING/ 118 M./ V-105 651,14B112.5



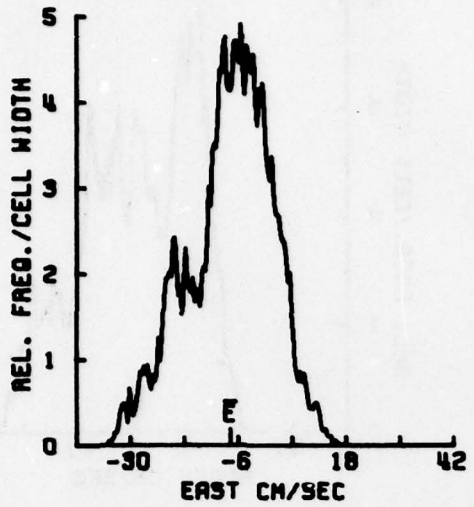


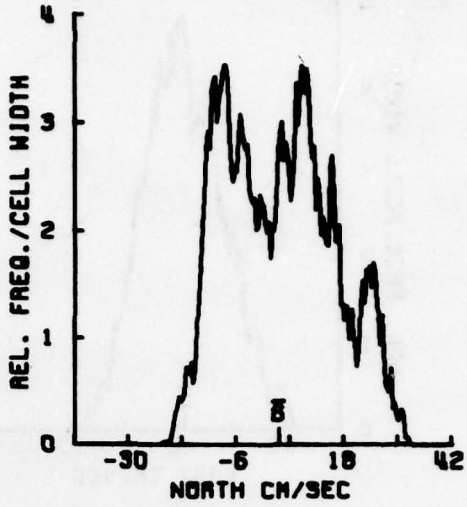


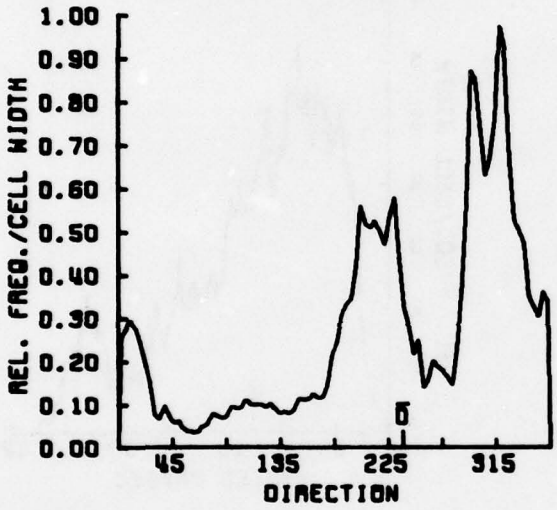


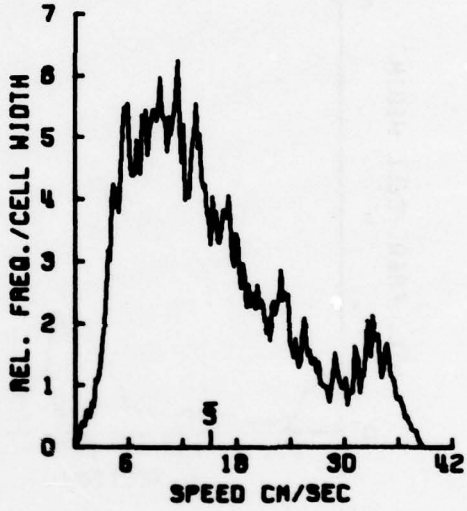


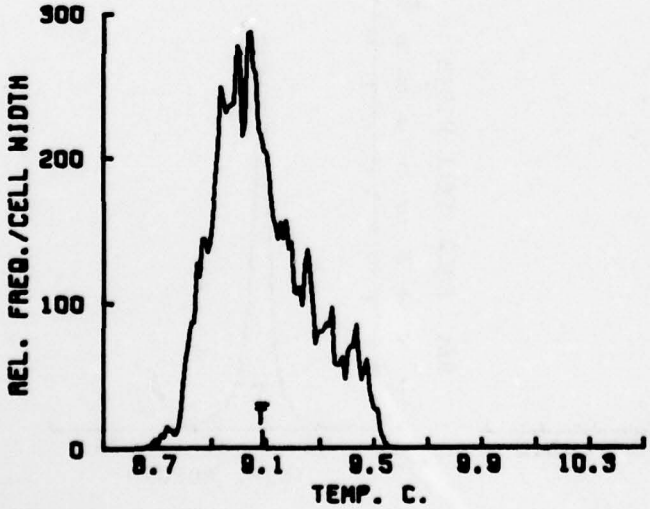
SUBSURFACE MOORING/ 121 M./ DT=5115 651,15B112.5

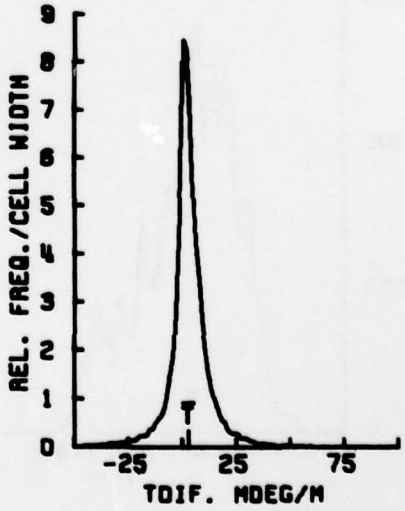




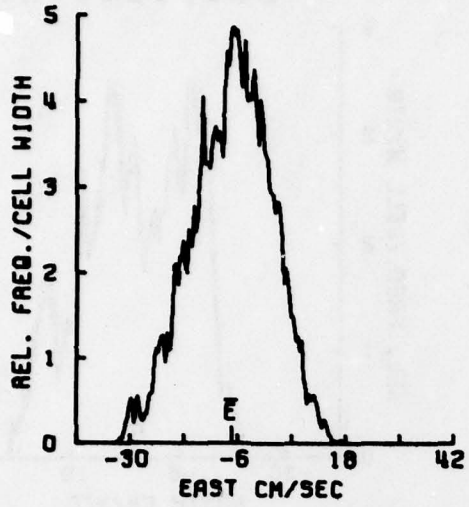


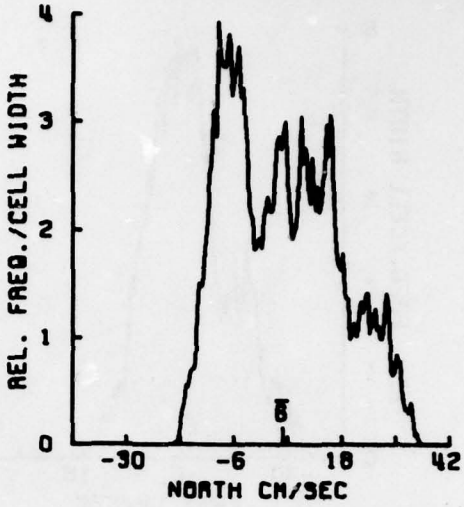


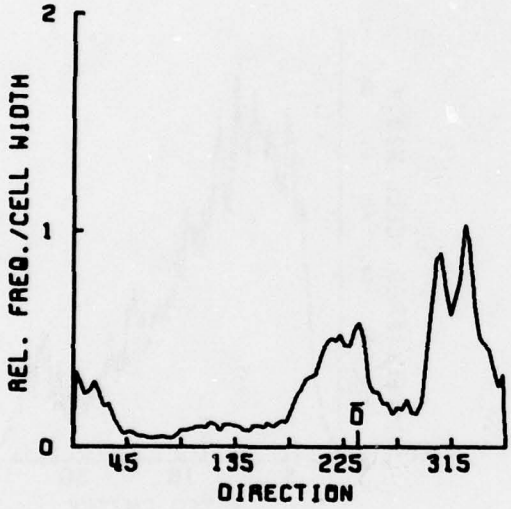


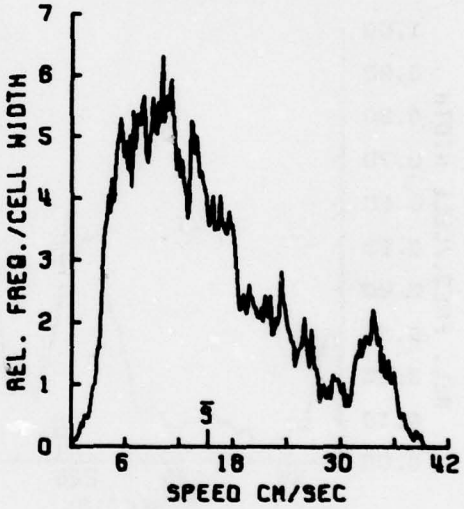


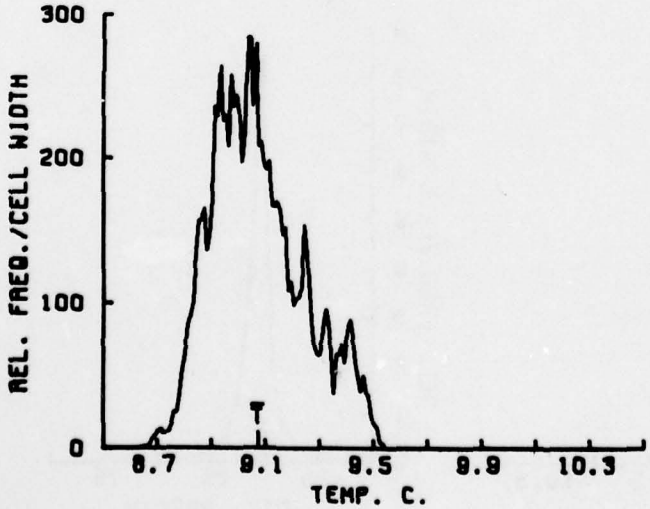
SUBSURFACE MOORING/ 124 M./ DT=5116 651,16A112.5

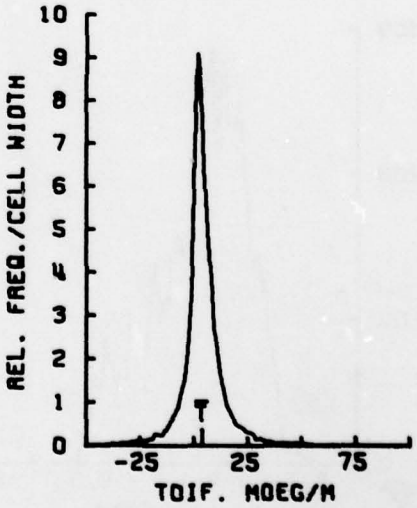






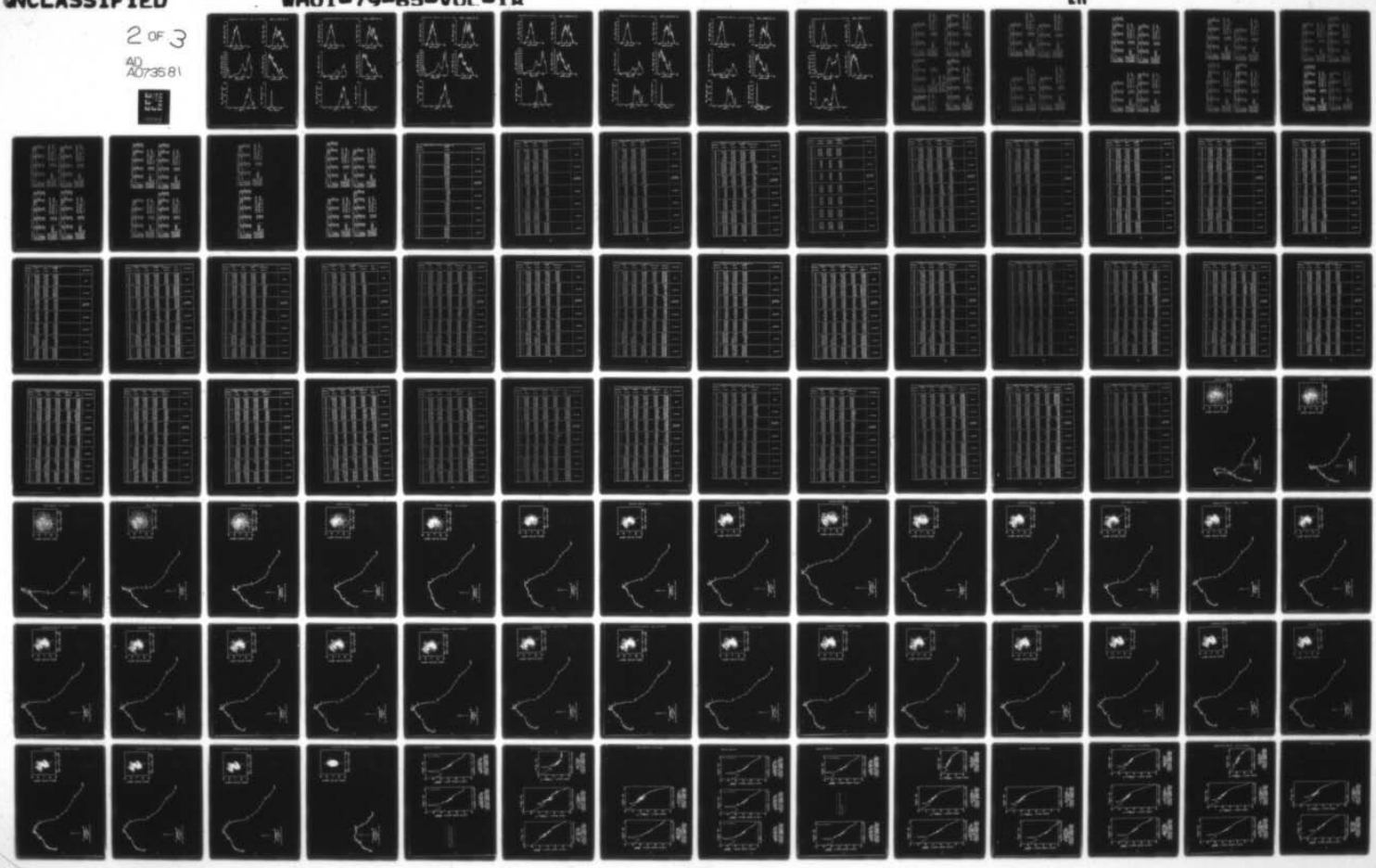


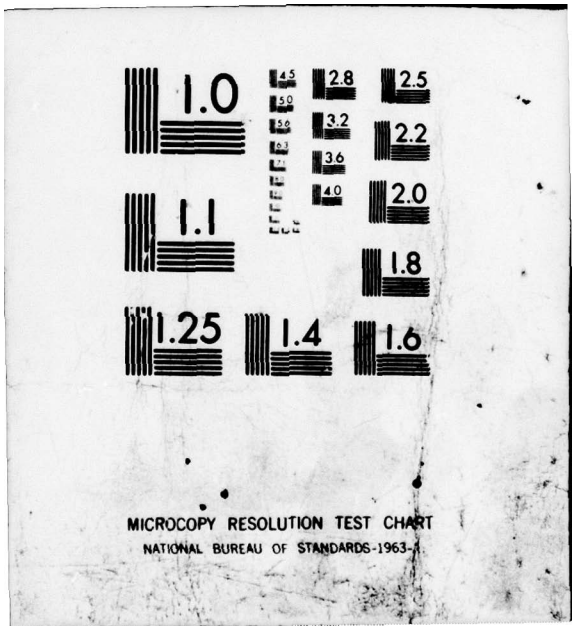




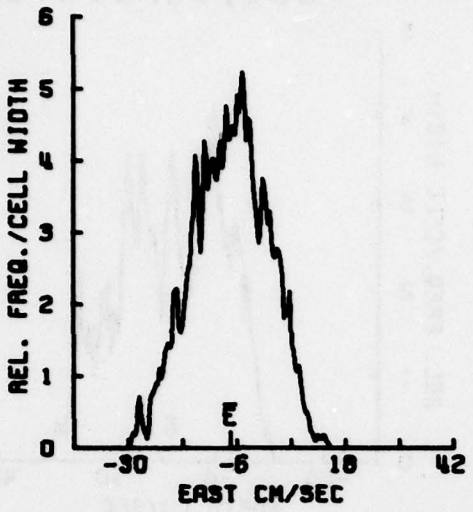
AD-A073 581 WOODS HOLE OCEANOGRAPHIC INSTITUTION MASS F/G 8/10
A COMPILATION OF MOORED CURRENT METER AND WIND RECORDER DATA. V--ETC(U)
JUL 79 S TARBELL, M G BRISCOE, R A WELLER N00014-76-C-0197
UNCLASSIFIED WHOI-79-65-VOL-1a NL

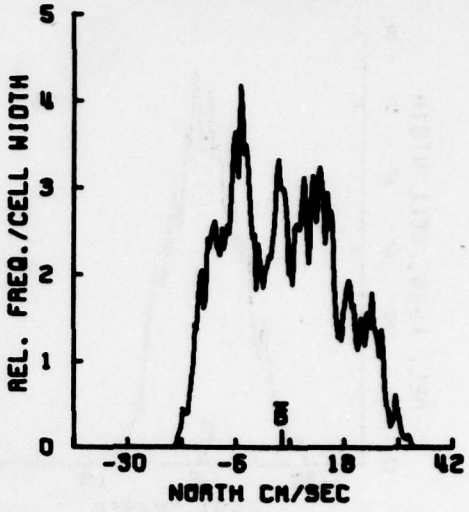
2 OF 3
AD A073581

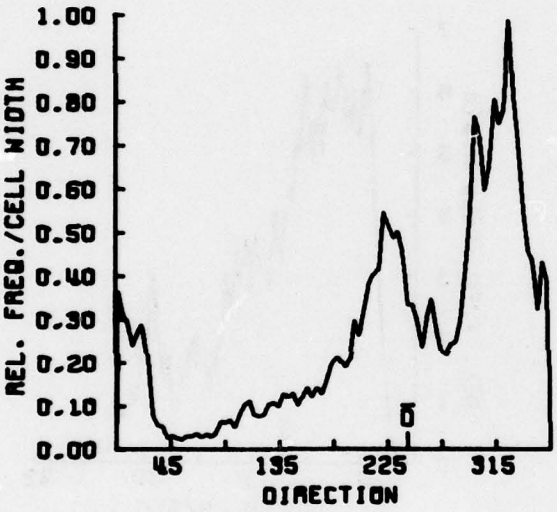


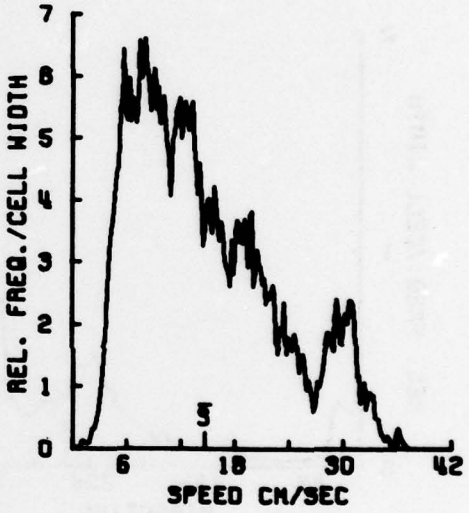

1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
4.5
5.0
5.6
6.3
7.1
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

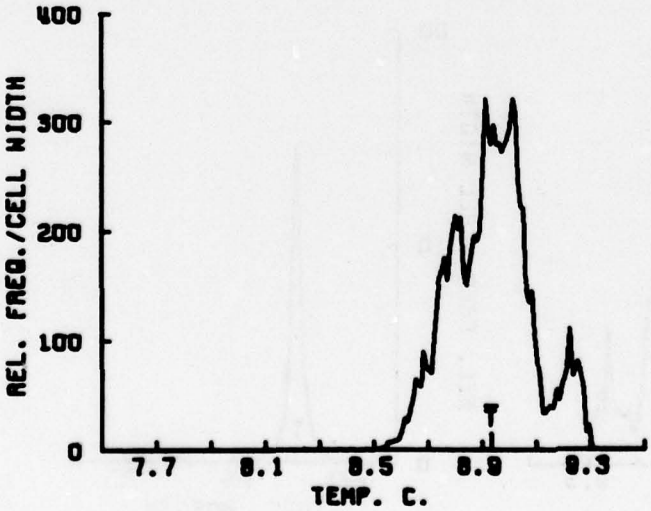
SUBSURFACE MOORING/ 185 M./ DT-5117 651,17A112.5

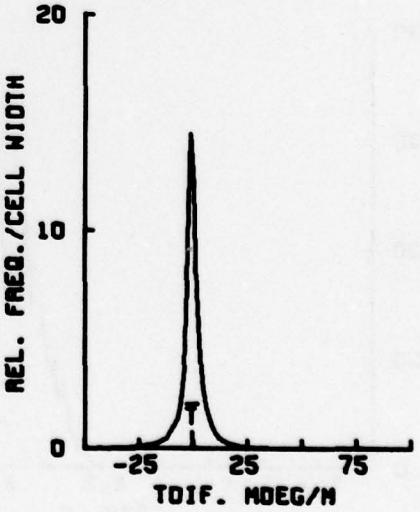




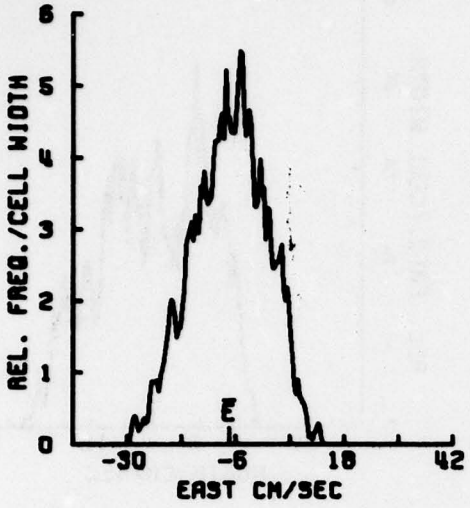


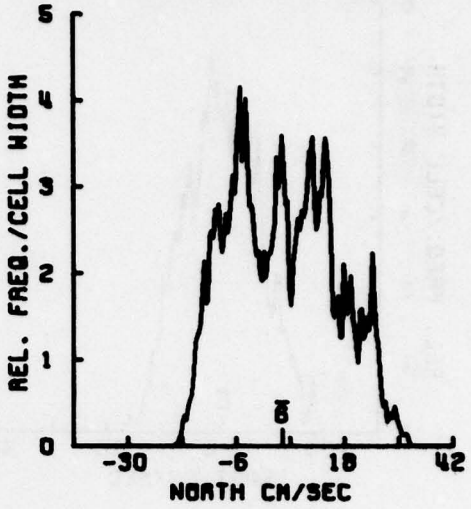


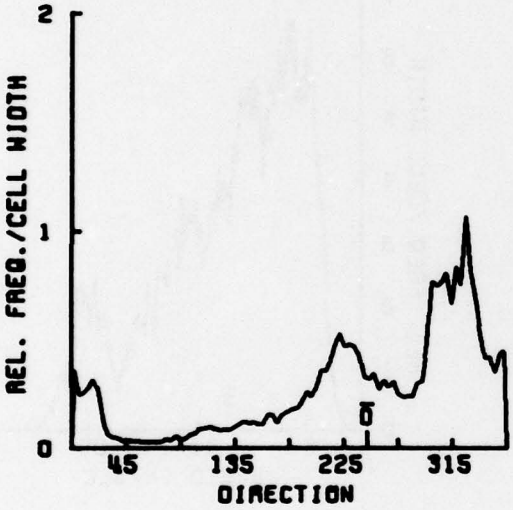


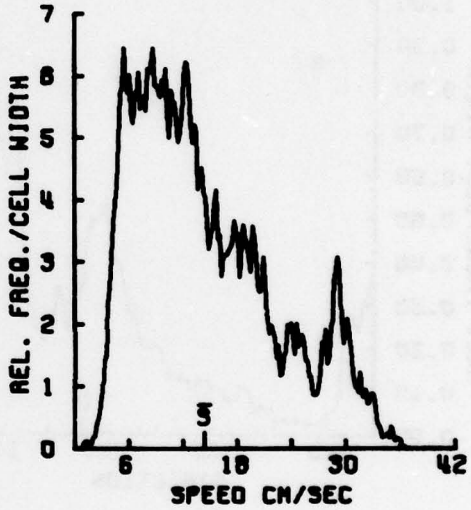


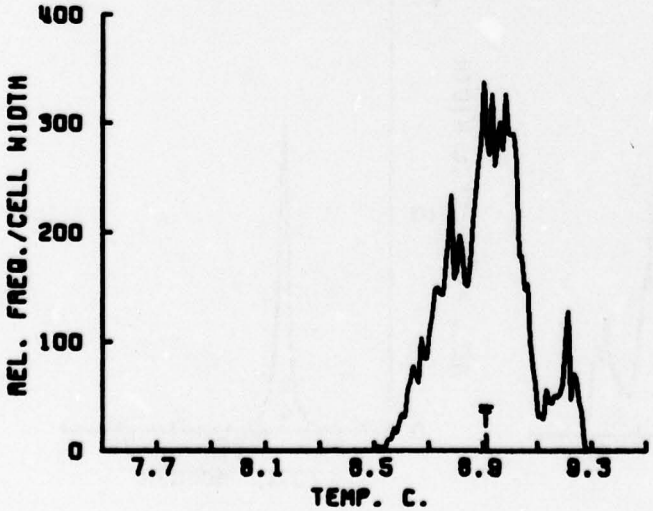
SUBSURFACE MOORING/ 200 M./ DT-5101 651,18A112.5

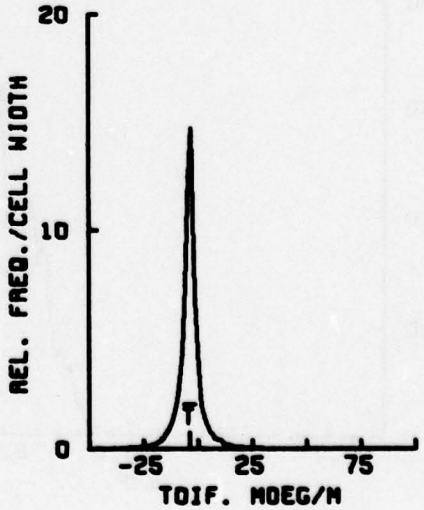




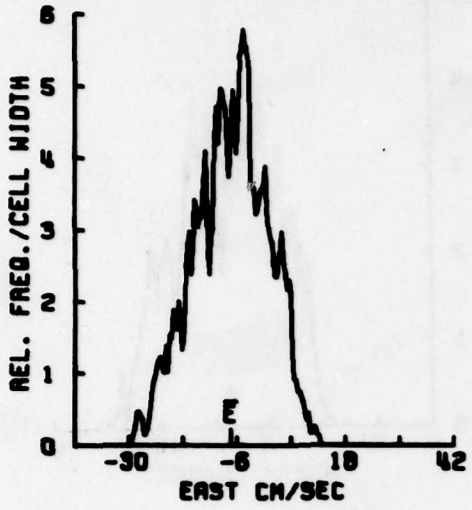


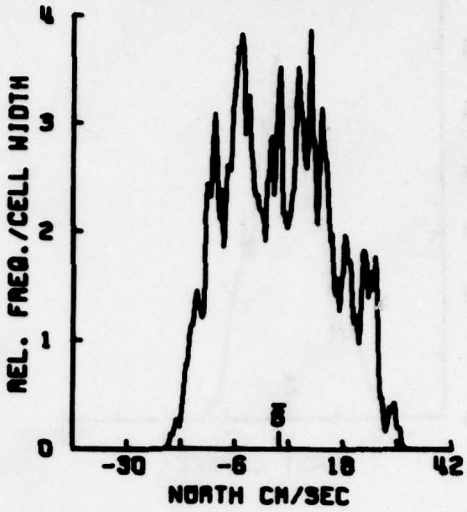


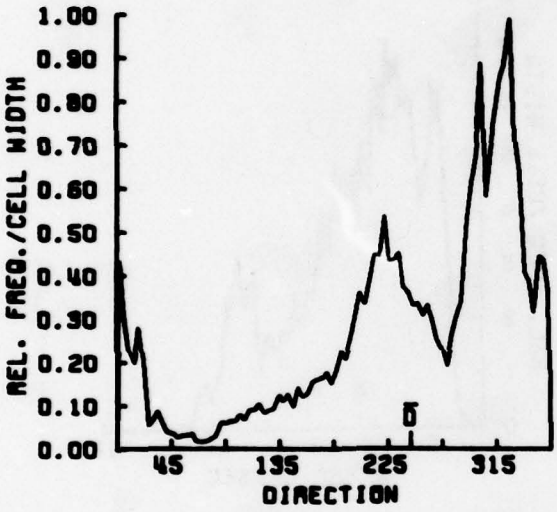


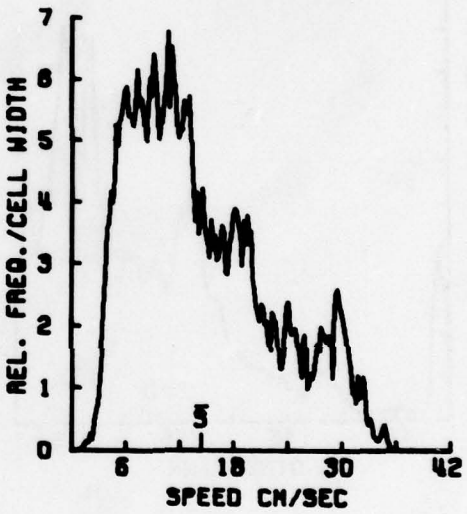


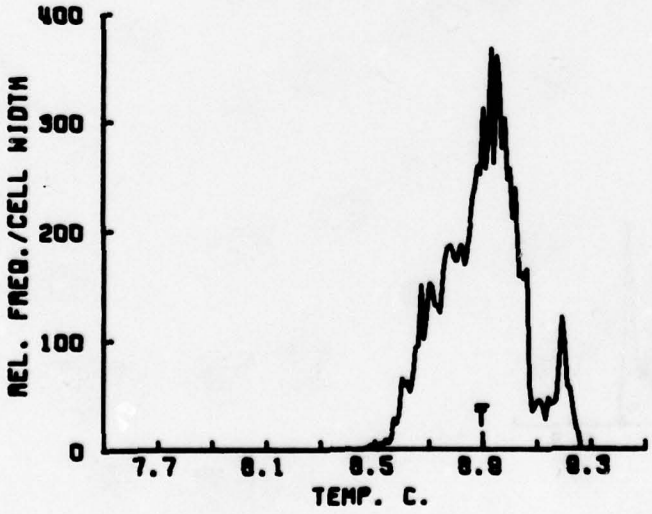
SUBSURFACE MOORING/ 210 M./ V=431 651,19A112.5



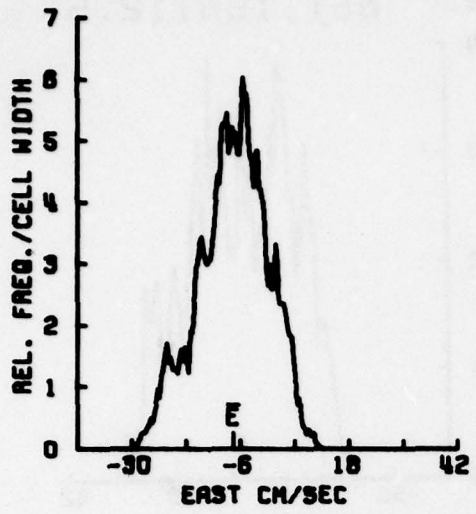


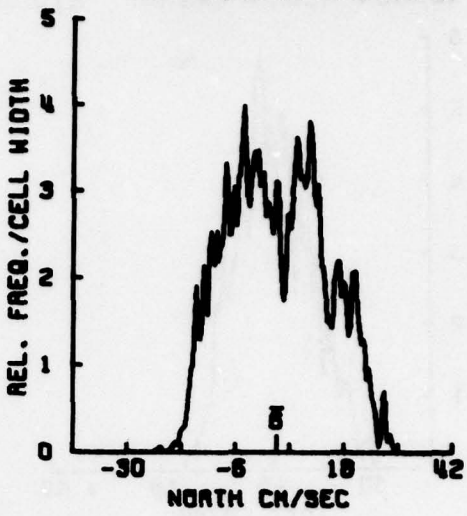


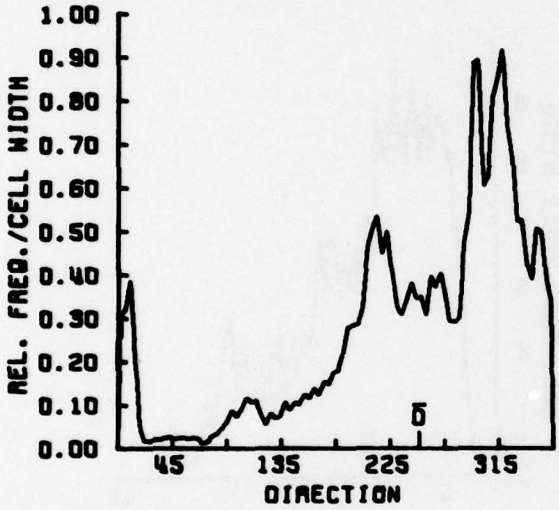


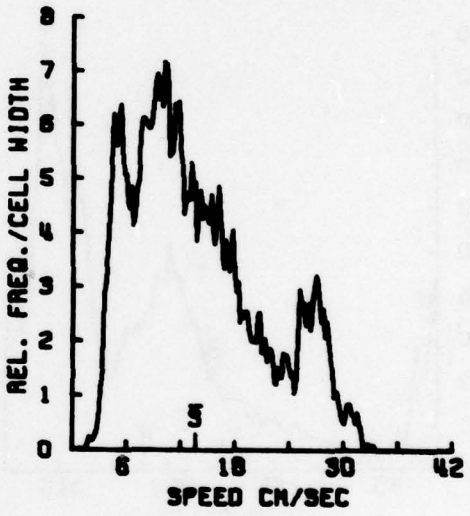


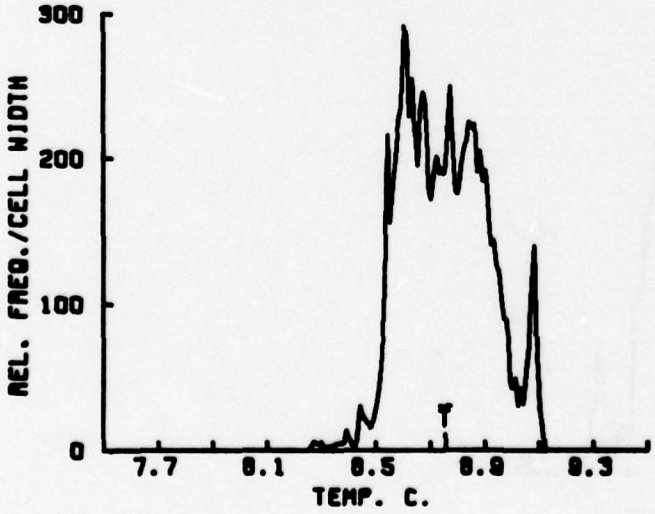
SUBSURFACE MOORING/ 295 M./ DT-5102 651,20A112.5



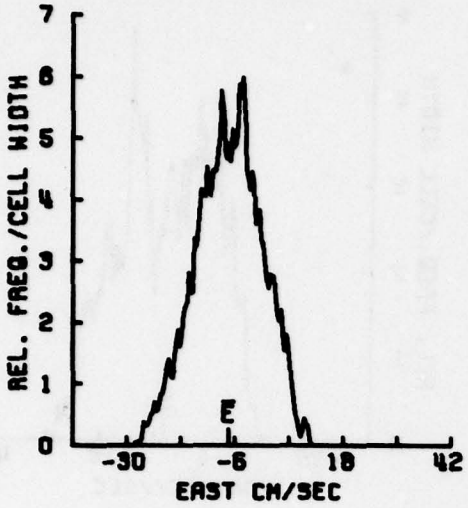


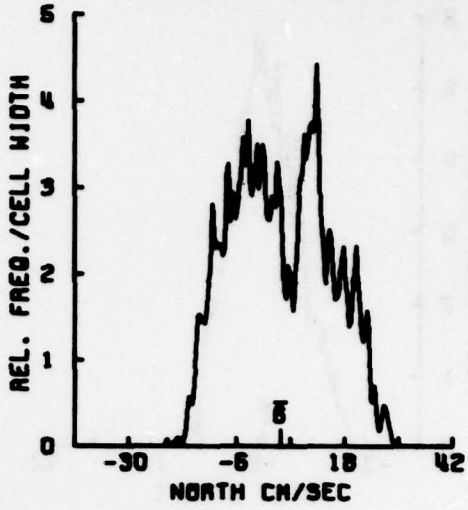


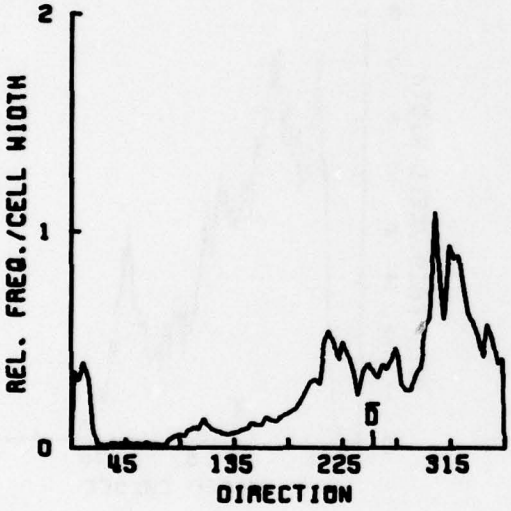


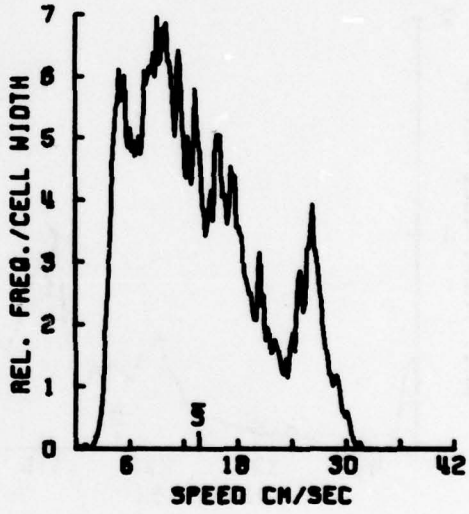


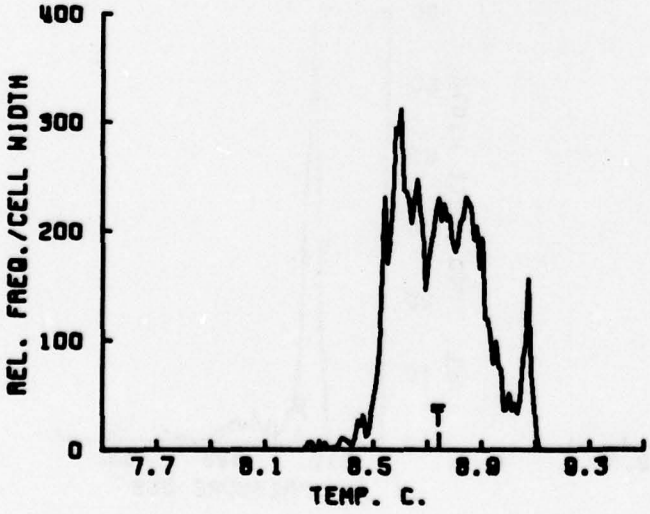
SUBSURFACE MOORING/ 300 M./ DT-5110 651,21A112.5

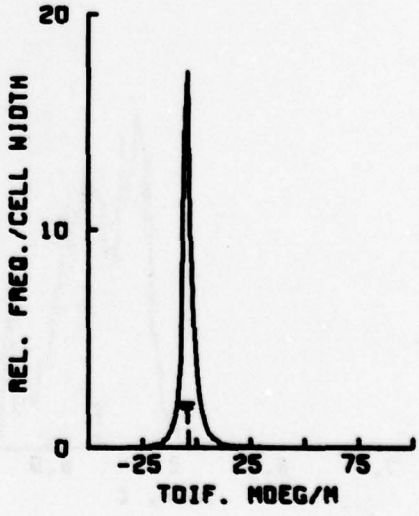




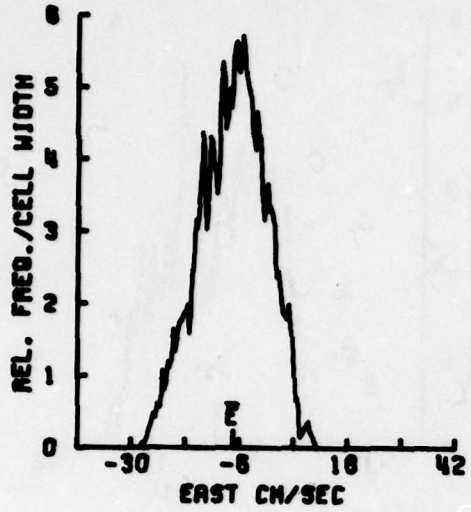


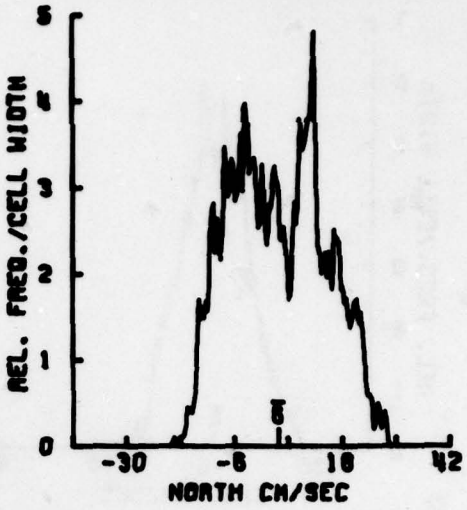


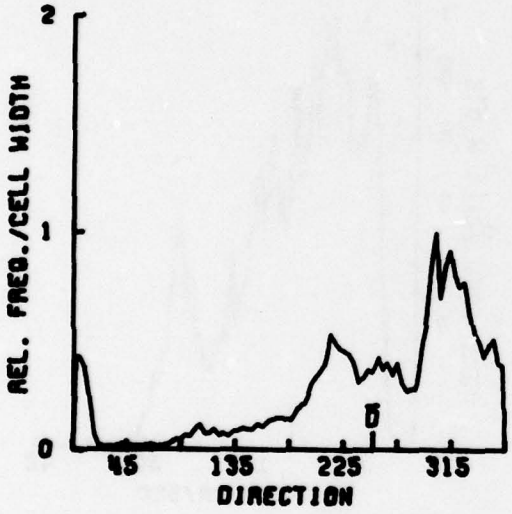


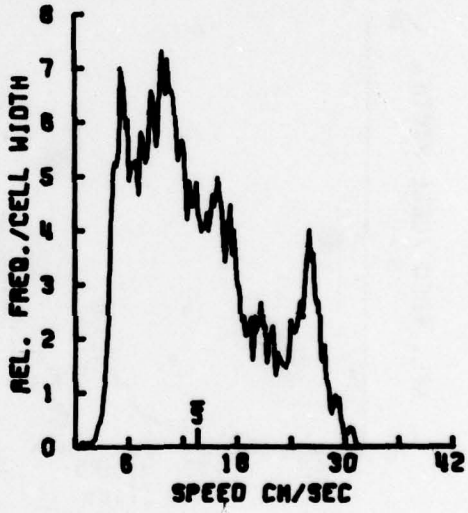


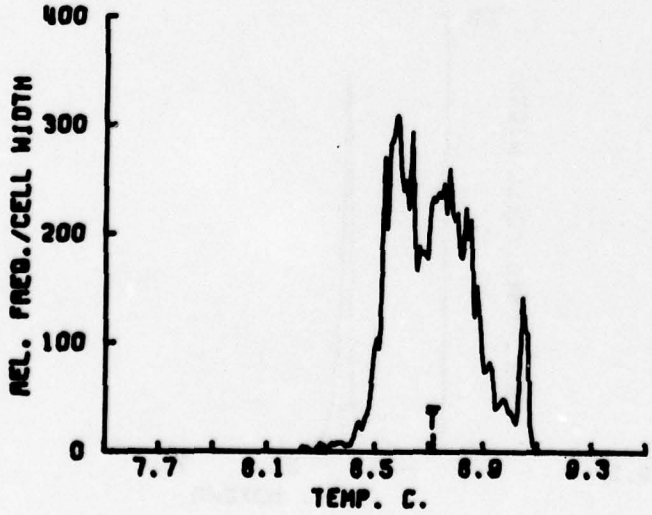
SUBSURFACE MOORING/ 310 M./ V-110P 651,22A112.5

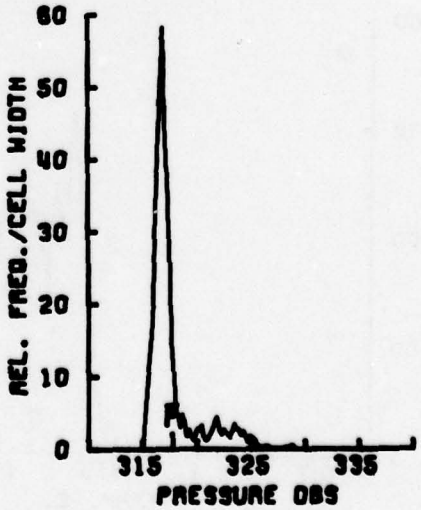




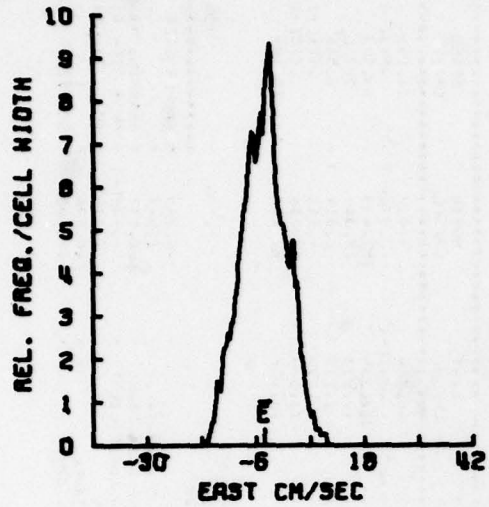


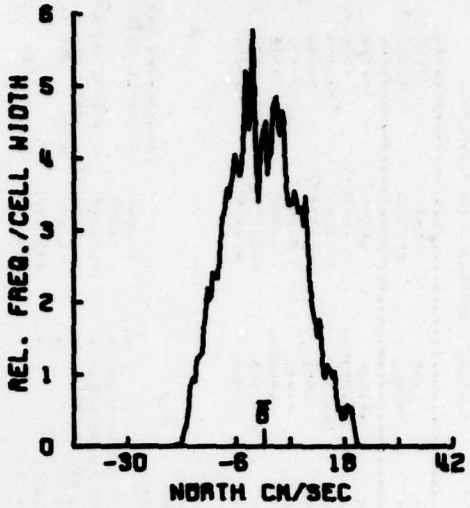


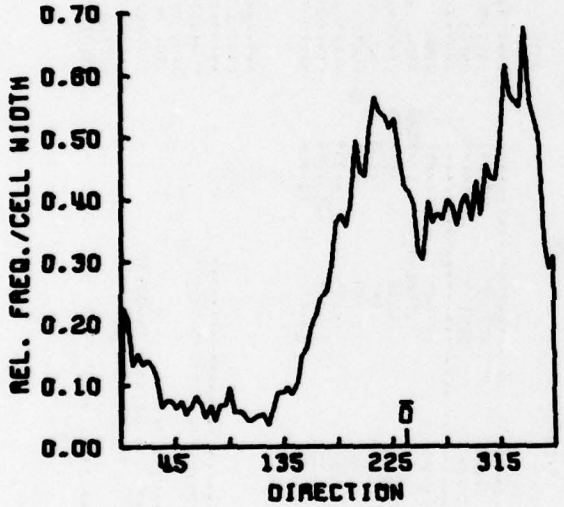


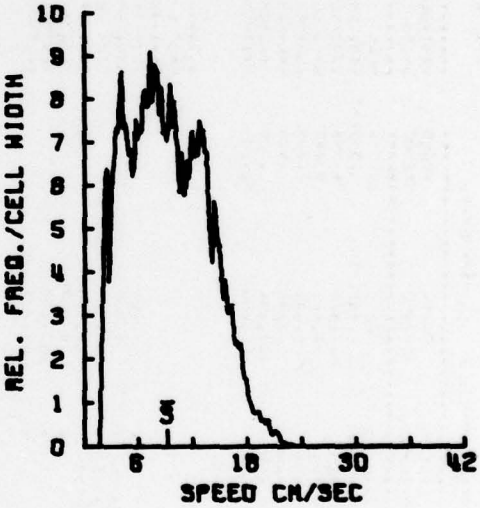


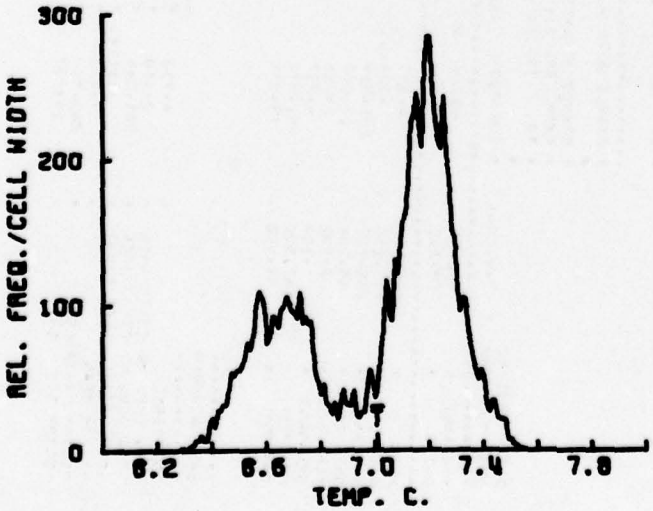
SUBSURFACE MOORING/ 1000 M./ DT=5105 651,23C112.5











DATA/ 6521B1208
SURFACE MOORING/ 5 M./VMCM=10

VARIABLE	SPEED
UNITS	CM/SEC
MEAN	20.160
STD. ERR.	.634E-1
VARIANCE	110.130
STD. DEV.	10.494
KURTOSIS	2.287
SKEWNESS	.291
MINIMUM	.992E-1
MAXIMUM	54.707

• SAMPLE SIZE = 27341 POINTS
•
• SPANNING RANGE
• FROM 78- VII-30 18.00.00
• TO 78- IX -04 18.00.00
•
• DURATION 36.00 DAYS

DATA/ 6522M120A SURFACE MOORING/ 10 M./VMCM=1

VARIABLE	EAST	NORTH	SPEED
UNITS	CM/SEC	CM/SEC	CM/SEC
MEAN	-4.498	.250	19.054
STD. ERR.	.839E-1	.944E-1	.549E-1
VARIANCE	193.310	249.444	96.996
STD. DEV.	13.723	15.680	9.747
KURTOSIS	2.897	2.697	2.728
SKEWNESS	.542E-1	-.290	.416
MINIMUM	-45.409	-47.494	.000
MAXIMUM	33.904	40.409	52.045

EAST & NORTH

COVARIANCE	-3.561
STD. ERR. OF COVARIANCE	1.372
STD. DEV. OF COVARIANCE	226.928
CORRELATION COEFFICIENT	-.166E-1
VECTOR MEAN	4.902
VECTOR VARIANCE	217.079
VECTOR STD. DEV.	14.734

• SAMPLE SIZE = 27361 POINTS
•
• SPANNING RANGE
• FROM 78- VII-30 18.00.00
• TO 78- IX -06 18.00.00
•
• DURATION 38.00 DAYS

DATA/ 6523M120A SURFACE MOORING/ 15 M./VMCM=4

VARIABLE	EAST	NORTH	SPEED
UNITS	CM/SEC	CM/SEC	CM/SEC
MEAN	-5.565	1.118	18.118
STD. ERR.	.779E-1	.891E-1	.564E-1
VARIANCE	145.910	217.074	87.169
STD. DEV.	12.081	14.733	9.336
KURTOSIS	2.861	2.863	2.791
SKEWNESS	.569E-1	-.362	.415
MINIMUM	-43.288	-50.353	.952E-1
MAXIMUM	35.205	42.314	51.206

EAST & NORTH

COVARIANCE	-4.244
STD. ERR. OF COVARIANCE	1.256
STD. DEV. OF COVARIANCE	207.717
CORRELATION COEFFICIENT	-.224E-1
VECTOR MEAN	5.696
VECTOR VARIANCE	191.492
VECTOR STD. DEV.	13.838

• SAMPLE SIZE = 27361 POINTS
•
• SPANNING RANGE
• FROM 78- VII-30 18.00.00
• TO 78- IX -06 18.00.00
•
• DURATION 38.00 DAYS

DATA/ 6531D60
SPAR MOORING/ 15 M./VCM=1

VARIABLE	EAST	NORTH	SPEED	TEMPERATURE	PRESSURE
UNITS	CM/SEC	CM/SEC	CM/SEC	CELSIUS	DECIBARS
MEAN	-6.132	4.609	21.978	12.625	13.256
STD. ERR.	.115	.128	.761E-1	.256E-2	.179E-2
VARIANCE	235.127	291.919	102.870	.116	.568E-1
STD. DEV.	15.334	17.086	10.142	.341	.238
KURTOSIS	2.592	2.595	2.545	1.949	2.704
SKEWNESS	.104	-.297	.227	-.136	-.359
MINIMUM	-67.992	-51.979	.000	11.710	12.314
MAXIMUM	35.425	43.356	70.381	13.470	13.838

EAST & NORTH

COVARIANCE	4.753
STD. ERR. OF COVARIANCE	2.110
STD. DEV. OF COVARIANCE	281.046
CORRELATION COEFFICIENT	.1B1E-1
VECTOR MEAN	7.671
VECTOR VARIANCE	263.523
VECTOR STD. DEV.	16.233

• SAMPLE SIZE = 17740 POINTS
•
• SPANNING RANGE
• FROM 78- VII-31 14.00.30
• TO 78- IX -06 12.57.30
•
• DURATION 36.96 DAYS

DATA/ 6532M112.5 SPAR MOORING/ 17 M./V=433

VARIABLE	EAST	NORTH	SPEED	TEMPERATURE
UNITS	CM/SEC	CM/SEC	CM/SEC	CELSIUS
MEAN =	-6.714	4.039	21.049	12.630
STD. ERR. =	.867E-1	.970E-1	.591E-1	.199E-2
VARIANCE =	213.935	267.453	99.327	.113
STD. DEV. =	14.613	16.354	9.966	.336
KURTOSIS =	2.717	2.614	2.568	1.948
SKEWNESS =	.196	-.343	.971E-1	-.109
MINIMUM =	-72.064	-48.234	.878E-1	11.422
MAXIMUM =	36.158	42.266	76.184	13.441

EAST & NORTH

COVARIANCE =	-4.959
STD. ERR. OF COVARIANCE =	1.543
STD. DEV. OF COVARIANCE =	260.032
CORRELATION COEFFICIENT =	-.208E-1
VECTOR MEAN =	7.835
VECTOR VARIANCE =	240.494
VECTOR STD. DEV. =	15.508

• SAMPLE SIZE = 28416 POINTS
•
• SPANNING RANGE
• FROM 78- VII-31 13.00.56
• TO 78- IX -06 12.59.03
•
• DURATION 37.00 DAYS

DATA/ 65258120A SURFACE MOORING/ 20 M./VMCM=3

VARIABLE	EAST	NORTH	SPEED
UNITS	CM/SEC	CM/SEC	CM/SEC
MEAN	-4.745	1.449	20.276
STD. ERR.	.859E-1	.349E-1	.630E-1
VARIANCE	201.486	267.465	1[illegible]7
STD. DEV.	14.202	16.357	10.425
KURTOSIS	2.733	3.028	2.908
SKEWNESS	.291E-1	-.467	.436
MINIMUM	-51.273	-59.274	.000
MAXIMUM	37.036	50.645	61.919

EAST & NORTH

COVARIANCE	=	-1.515
STD. ERR. OF COVARIANCE	=	1.574
STD. DEV. OF COVARIANCE	=	260.305
CORRELATION COEFFICIENT	=	-.652E-2
VECTOR MEAN	=	7.032
VECTOR VARIANCE	=	234.776
VECTOR STD. DEV.	=	15.322

SAMPLE SIZE = 27361 POINTS

SPANNING RANGE
FROM 78- VII-30 18.00.00
TO 78- IX -06 18.00.00

DURATION 38.00 DAYS

DATA/ 65268120A SURFACE MOORING/ 40 M./VMCM=6

VARIABLE	EAST	NORTH	SPEED
UNITS	CM/SEC	CM/SEC	CM/SEC
MEAN	-7.590	3.464	14.916
STD. ERR.	.557E-1	.688E-1	.475E-1
VARIANCE	84.839	129.692	41.649
STD. DEV.	9.211	11.388	7.852
KURTOSIS	2.893	2.754	2.524
SKEWNESS	-.149	-.465	.399
MINIMUM	-33.668	-37.231	.000
MAXIMUM	25.031	32.117	45.337

EAST & NORTH

COVARIANCE	=	-5.713
STD. ERR. OF COVARIANCE	=	.932
STD. DEV. OF COVARIANCE	=	154.124
CORRELATION COEFFICIENT	=	-.565E-1
VECTOR MEAN	=	8.383
VECTOR VARIANCE	=	107.266
VECTOR STD. DEV.	=	10.357

SAMPLE SIZE = 27361 POINTS

SPANNING RANGE
FROM 78- VII-30 18.00.00
TO 78- IX -06 18.00.00

DURATION 38.00 DAYS

DATA/ 65258120A SURFACE MOORING/ 30 M./VMCM=8

VARIABLE	EAST	NORTH	SPEED
UNITS	CM/SEC	CM/SEC	CM/SEC
MEAN =	-6.614	2.210	16.169
STD. ERR. =	.636E-1	.790E-1	.500E-1
VARIANCE =	110.621	170.677	68.504
STD. DEV. =	10.518	13.064	8.277
KURTOSIS =	2.669	3.040	2.936
SKEWNESS =	.280E-1	-.616	.459
MINIMUM =	-41.650	-41.938	.000
MAXIMUM =	24.833	32.634	45.551

EAST & NORTH

COVARIANCE	=	-2.705
STD. ERR. OF COVARIANCE	=	1.040
STD. DEV. OF COVARIANCE	=	172.015
CORRELATION COEFFICIENT	=	-.197E-1
VECTOR MEAN	=	6.974
VECTOR VARIANCE	=	140.649
VECTOR STD. DEV.	=	11.860

SAMPLE SIZE = 27361 POINTS

SPANNING RANGE
FROM 78- VII-30 18.00.00
TO 78- IX -06 18.00.00

DURATION 38.00 DAYS

DATA/ 65278120A SURFACE MOORING/ 50 M./VMCM=7

VARIABLE	EAST	NORTH	SPEED
UNITS	CM/SEC	CM/SEC	CM/SEC
MEAN	-7.579	3.428	14.106
STD. ERR.	.508E-1	.652E-1	.458E-1
VARIANCE	70.015	116.446	56.675
STD. DEV.	8.367	10.791	7.528
KURTOSIS	2.625	2.368	2.132
SKEWNESS	-.182	-.239	.221
MINIMUM	-38.536	-33.223	.000
MAXIMUM	14.908	29.855	39.963

EAST & NORTH

COVARIANCE	=	-14.223
STD. ERR. OF COVARIANCE	=	.807
STD. DEV. OF COVARIANCE	=	133.487
CORRELATION COEFFICIENT	=	-.207
VECTOR MEAN	=	8.319
VECTOR VARIANCE	=	93.230
VECTOR STD. DEV.	=	9.654

SAMPLE SIZE = 27361 POINTS

SPANNING RANGE
FROM 78- VII-30 18.00.00
TO 78- IX -06 18.00.00

DURATION 38.00 DAYS

DATA/ 6529W120A SURFACE MOORING/ 70 M./VMCM-14

VARIABLE	EAST	NORTH	SPEED
UNITS	CM/SEC	CM/SEC	CM/SEC
MEAN	-7.275	3.127	13.178
STD. ERR.	.478E-1	.630E-1	.469E-1
VARIANCE	42.513	108.611	60.159
STD. DEV.	7.906	10.422	7.756
KURTOSIS	2.917	2.167	2.299
SKEWNESS	-.479	.127	.447
MINIMUM	-34.274	-25.152	.000
MAXIMUM	13.228	29.995	36.169

EAST & NORTH

COVARIANCE	-20.243	SAMPLE SIZE = 27361 POINTS
STD. ERR. OF COVARIANCE	.785	
STD. DEV. OF COVARIANCE	129.837	SPANNING RANGE
CORRELATION COEFFICIENT	-.246	FROM 78- VII-30 18:00:00
VECTOR MEAN	7.918	TO 78- IX -06 18:00:00
VECTOR VARIANCE	85.562	
VECTOR STD. DEV.	9.250	DURATION 38.00 DAYS

DATA/ 652.10A112.5 SURFACE MOORING/ 79 M./V-436

VARIABLE	EAST	NORTH	SPEED	TEMPERATURE
UNITS	CM/SEC	CM/SEC	CM/SEC	CELSIUS
MEAN	-10.027	4.404	19.187	9.483
STD. ERR.	.589E-1	.869E-1	.501E-1	.142E-2
VARIANCE	101.287	220.414	73.466	.592E-1
STD. DEV.	10.064	14.846	8.571	.243
KURTOSIS	2.676	1.812	2.208	2.426
SKEWNESS	.917E-1	-.439E-1	.116	.121
MINIMUM	-37.656	-30.146	.197	8.883
MAXIMUM	20.319	34.660	41.045	10.656

EAST & NORTH

COVARIANCE	-24.604	SAMPLE SIZE = 29216 POINTS
STD. ERR. OF COVARIANCE	1.305	
STD. DEV. OF COVARIANCE	223.022	SPANNING RANGE
CORRELATION COEFFICIENT	-.165	FROM 78- VII-30 17.00.56
VECTOR MEAN	10.951	TO 78- IX -06 17.59.03
VECTOR VARIANCE	160.851	
VECTOR STD. DEV.	12.683	DURATION 38.04 DAYS

DATA/ 6811A112.5 SUBSURFACE MOORING/ 79 M./ DT-5104

VARIABLE	EAST	NORTH	SPEED	TEMPERATURE	TDIF.
UNITS	CM/SEC	CM/SEC	CM/SEC	CELSIUS	MDEG/M
MEAN	-7.284	4.313	15.224	9.461	16.572
STD. ERR.	.508E-1	.696E-1	.488E-1	.135E-2	.904E-1
VARIANCE	77.169	146.482	69.812	.554E-1	269.617
STD. DEV.	8.785	12.102	7.909	.235	16.420
KURTOSIS	2.776	2.027	2.887	2.900	9.460
SKEWNESS	-.219	.137	.625	.214	1.288
MINIMUM	-33.656	-21.962	1.028	8.884	-110.489
MAXIMUM	19.860	35.626	37.183	11.682	193.779

EAST & NORTH

COVARIANCE	-22.180	SAMPLE SIZE = 30240 POINTS
STD. ERR. OF COVARIANCE	.940	
STD. DEV. OF COVARIANCE	163.431	SPANNING RANGE
CORRELATION COEFFICIENT	-.209	FROM 78- VII-29 22:00:56
VECTOR MEAN	8.466	TO 78- IX -07 06:59:03
VECTOR VARIANCE	111.810	
VECTOR STD. DEV.	10.574	DURATION 39.37 DAYS

DATA/ 6836W112.5 SPAR MOORING/ 79 M./DT-5113

VARIABLE	EAST	NORTH	SPEED	TEMPERATURE
UNITS	CM/SEC	CM/SEC	CM/SEC	CELSIUS
MEAN	-8.904	4.084	17.662	9.524
STD. ERR.	.579E-1	.788E-1	.444E-1	.164E-2
VARIANCE	95.304	176.607	58.921	.769E-1
STD. DEV.	9.762	13.289	7.678	.276
KURTOSIS	2.771	1.862	2.612	2.342
SKEWNESS	-.679E-1	-.128	-.913	.174
MINIMUM	-40.685	-42.028	.324	8.932
MAXIMUM	18.880	36.113	50.876	10.314

EAST & NORTH

COVARIANCE	-18.743	SAMPLE SIZE = 28416 POINTS
STD. ERR. OF COVARIANCE	1.079	
STD. DEV. OF COVARIANCE	181.886	SPANNING RANGE
CORRELATION COEFFICIENT	-.144	FROM 78- VII-31 13:00:56
VECTOR MEAN	9.796	TO 78- IX -04 12:59:03
VECTOR VARIANCE	135.985	
VECTOR STD. DEV.	11.660	DURATION 37.00 DAYS

DATA/ 6512C112.5 SUBSURFACE MOORING/ 82 M./ DT-5106

VARIABLE / UNITS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	DIF. MDEG/M
MEAN	-7.953	3.838	15.363	9.413	13.300
STD. ERR.	.532E-1	.683E-1	.476E-1	.130E-2	.920E-1
VARIANCE	85.491	141.090	68.516	.511E-1	255.693
STD. DEV.	9.246	11.878	8.277	.226	15.997
KURTOSIS	2.723	2.075	2.550	2.548	9.947
SKEWNESS	-.339	.128	.645	.242	1.157
MINIMUM	-35.721	-22.035	.302	8.862	-121.039
MAXIMUM	14.469	34.461	37.996	11.275	169.708

EAST & NORTH

COVARIANCE	=	-29.230
STD. ERR. OF COVARIANCE	=	.979
STD. DEV. OF COVARIANCE	=	170.216
CORRELATION COEFFICIENT	=	-.266
VECTOR MEAN	=	8.830
VECTOR VARIANCE	=	113.291
VECTOR STD. DEV.	=	10.644

* SAMPLE SIZE = 30240 POINTS
* SPANNING RANGE
* FROM 78- VII-29 22.00.56
* TO 78- IX -07 06.59.03
* DURATION 39.37 DAYS

DATA/ 65138112.5 SUBSURFACE MOORING/ 85 M./ V-326M

VARIABLE / UNITS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	PRESSURE DECIBARS	TEMPERATURE CELSIUS
MEAN	-7.672	4.199	15.480	88.584	9.371
STD. ERR.	.517E-1	.710E-1	.481E-1	.144E-1	.126E-2
VARIANCE	80.716	152.306	69.863	6.237	.462E-1
STD. DEV.	8.984	12.341	8.358	2.497	.215
KURTOSIS	2.711	2.008	2.545	6.730	2.291
SKEWNESS	-.282	.155	.642	2.053	.250
MINIMUM	-35.438	-22.634	.148	85.910	8.857
MAXIMUM	14.512	35.179	38.181	100.512	10.619

EAST & NORTH

COVARIANCE	=	-27.420
STD. ERR. OF COVARIANCE	=	1.017
STD. DEV. OF COVARIANCE	=	176.919
CORRELATION COEFFICIENT	=	-.247
VECTOR MEAN	=	8.745
VECTOR VARIANCE	=	116.511
VECTOR STD. DEV.	=	10.794

* SAMPLE SIZE = 30240 POINTS
* SPANNING RANGE
* FROM 78- VII-29 22.00.56
* TO 78- IX -07 06.59.03
* DURATION 39.37 DAYS

DATA/ 6537D60 SPAR MOORING/ 82 M./ACM-

VARIABLE / UNITS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS
MEAN	-7.177	3.816	12.944	9.508
STD. ERR.	.680E-1	.811E-1	.740E-1	.204E-2
VARIANCE	82.005	116.580	97.092	.741E-1
STD. DEV.	9.056	10.797	9.854	.272
KURTOSIS	3.160	2.666	2.231	2.360
SKEWNESS	-.875	.266	.618	.212
MINIMUM	-38.641	-27.618	.000	8.930
MAXIMUM	14.308	36.499	41.076	10.300

EAST & NORTH

COVARIANCE	=	-25.822
STD. ERR. OF COVARIANCE	=	1.211
STD. DEV. OF COVARIANCE	=	161.271
CORRELATION COEFFICIENT	=	-.264
VECTOR MEAN	=	8.128
VECTOR VARIANCE	=	99.292
VECTOR STD. DEV.	=	9.965

* SAMPLE SIZE = 17740 POINTS
* SPANNING RANGE
* FROM 78- VII-31 14.01.30
* TO 78- IX -06 12.58.30
* DURATION 36.96 DAYS

DATA/ 652.128120A SURFACE MOORING/ 85 M./VMCM-13

VARIABLE / UNITS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC
MEAN	-7.554	2.913	13.460
STD. ERR.	.488E-1	.643E-1	.479E-1
VARIANCE	45.173	113.109	62.662
STD. DEV.	8.073	10.635	7.916
KURTOSIS	2.990	2.121	2.462
SKEWNESS	-.500	.158	.530
MINIMUM	-34.603	-22.414	.000
MAXIMUM	13.272	30.994	36.451

EAST & NORTH

COVARIANCE	=	-24.533
STD. ERR. OF COVARIANCE	=	.844
STD. DEV. OF COVARIANCE	=	139.675
CORRELATION COEFFICIENT	=	-.286
VECTOR MEAN	=	8.096
VECTOR VARIANCE	=	89.141
VECTOR STD. DEV.	=	9.441

* SAMPLE SIZE = 27361 POINTS
* SPANNING RANGE
* FROM 78- VII-30 18.00.00
* TO 78- IX -06 18.00.00
* DURATION 38.00 DAYS

DATA/ 6818C112.5 SUBSURFACE MOORING/ 91 M./ DT-5107

VARIABLE / UNITS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	TDIF. MDEG/M
MEAN	-7.412	4.598	15.420	9.290	10.485
STD. ERR.	.810E-1	.720E-1	.493E-1	.115E-2	.817E-1
VARIANCE	78.571	156.712	73.898	.401E-1	201.736
STD. DEV.	8.864	12.518	8.579	.200	14.203
KURTOSIS	2.691	2.028	2.869	2.358	14.864
SKEWNESS	-.206	.219	.661	.351	1.541
MINIMUM	-35.290	-20.923	.402	8.818	-82.950
MAXIMUM	15.702	36.387	38.709	10.239	176.193

EAST & NORTH

COVARIANCE	=	-29.407
STD. ERR. OF COVARIANCE	=	1.037
STD. DEV. OF COVARIANCE	=	180.321
CORRELATION COEFFICIENT	=	-.229
VECTOR MEAN	=	8.723
VECTOR VARIANCE	=	117.641
VECTOR STD. DEV.	=	10.846

SAMPLE SIZE = 30240 POINTS

SPANNING RANGE
FROM 78- VII-29 22.00.56
TO 78- IX -07 06.59.03

DURATION 39.37 DAYS

DATA/ 6517C112.5 SUBSURFACE MOORING/ 97 M./ V-386

VARIABLE / UNITS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS
MEAN	-7.719	4.155	15.364	9.230
STD. ERR.	.545E-1	.730E-1	.489E-1	.108E-2
VARIANCE	80.316	146.214	72.435	.354E-1
STD. DEV.	8.962	12.174	8.511	.188
KURTOSIS	2.361	2.022	2.464	2.435
SKEWNESS	-.256	.179	.592	.405
MINIMUM	-35.563	-23.972	.227	8.775
MAXIMUM	19.199	34.232	37.721	9.792

EAST & NORTH

COVARIANCE	=	-29.514
STD. ERR. OF COVARIANCE	=	1.023
STD. DEV. OF COVARIANCE	=	177.933
CORRELATION COEFFICIENT	=	-.271
VECTOR MEAN	=	8.942
VECTOR VARIANCE	=	114.265
VECTOR STD. DEV.	=	10.689

SAMPLE SIZE = 30240 POINTS

SPANNING RANGE
FROM 78- VII-29 22.00.56
TO 78- IX -07 06.59.03

DURATION 39.37 DAYS

DATA/ 6516F112.5 SUBSURFACE MOORING/ 96 M./ V-177

VARIABLE / UNITS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS
MEAN	-8.223	3.948	15.408	9.267
STD. ERR.	.536E-1	.683E-1	.494E-1	.111E-2
VARIANCE	86.746	141.212	73.765	.374E-1
STD. DEV.	9.314	11.883	8.589	.193
KURTOSIS	2.567	2.049	2.543	2.386
SKEWNESS	-.348	.163	.645	.381
MINIMUM	-36.034	-22.122	.120	8.815
MAXIMUM	16.220	33.947	37.988	9.866

EAST & NORTH

COVARIANCE	=	-31.113
STD. ERR. OF COVARIANCE	=	1.034
STD. DEV. OF COVARIANCE	=	179.831
CORRELATION COEFFICIENT	=	-.231
VECTOR MEAN	=	9.122
VECTOR VARIANCE	=	113.979
VECTOR STD. DEV.	=	10.676

SAMPLE SIZE = 30240 POINTS

SPANNING RANGE
FROM 78- VII-29 22.00.56
TO 78- IX -07 06.59.03

DURATION 39.37 DAYS

DATA/ 6518A112.5 SUBSURFACE MOORING/ 100 M./ DT-5108

VARIABLE / UNITS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	TDIF. MDEG/M
MEAN	-7.367	4.849	15.433	9.210	6.884
STD. ERR.	.494E-1	.728E-1	.497E-1	.107E-2	.749E-1
VARIANCE	73.902	160.149	74.587	.344E-1	169.596
STD. DEV.	8.597	12.655	8.636	.186	13.023
KURTOSIS	2.692	2.038	2.543	2.436	14.584
SKEWNESS	-.148	.253	.633	.425	.132E-1
MINIMUM	-33.398	-23.543	.224	8.756	-128.117
MAXIMUM	13.095	36.748	38.097	9.727	129.627

EAST & NORTH

COVARIANCE	=	-25.029
STD. ERR. OF COVARIANCE	=	1.033
STD. DEV. OF COVARIANCE	=	179.581
CORRELATION COEFFICIENT	=	-.236
VECTOR MEAN	=	8.819
VECTOR VARIANCE	=	117.376
VECTOR STD. DEV.	=	10.838

SAMPLE SIZE = 30240 POINTS

SPANNING RANGE
FROM 78- VII-29 22.00.56
TO 78- IX -07 06.59.03

DURATION 39.37 DAYS

DATA/ 6519A112.8 SUBSURFACE MOORING/ 103 M./ DT-5109

VARIABLE / UNITS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	TDIF. MDEG/M
MEAN	-8.021	4.248	15.310	9.183	7.262
STD. ERR.	.921E-1	.689E-1	.493E-1	.105E-2	.697E-1
VARIANCE	82.008	143.620	73.609	.335E-1	146.760
STD. DEV.	9.058	11.984	8.580	.183	12.114
KURTOSIS	2.646	2.012	2.542	2.458	12.933
SKEWNESS	-.238	.200	.624	.445	.384
MINIMUM	-33.173	-23.158	.989E-1	8.750	-98.507
MAXIMUM	19.181	36.893	38.609	9.705	123.600

EAST & NORTH

COVARIANCE	-30.113	SAMPLE SIZE = 30240 POINTS
STD. ERR. OF COVARIANCE	1.042	
STD. DEV. OF COVARIANCE	181.234	SPANNING RANGE
CORRELATION COEFFICIENT	-.277	FROM 78- VII-29 22.00.56
VECTOR MEAN	9.077	TO 78- IX -07 06.59.03
VECTOR VARIANCE	112.811	
VECTOR STD. DEV.	10.621	DURATION 39.37 DAYS

DATA/ 651.12A112.8 SUBSURFACE MOORING/ 112 M./ DT-5114

VARIABLE / UNITS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	TDIF. MDEG/M
MEAN	-7.677	4.273	15.189	9.129	3.783
STD. ERR.	.518E-1	.704E-1	.507E-1	.102E-2	.611E-1
VARIANCE	81.263	149.865	77.620	.317E-1	113.013
STD. DEV.	9.015	12.242	8.810	.178	10.631
KURTOSIS	2.766	2.118	2.629	2.561	13.900
SKEWNESS	-.281	.286	.709	.508	.625
MINIMUM	-35.225	-23.781	.222	8.702	-104.813
MAXIMUM	18.124	35.621	38.916	9.626	122.079

EAST & NORTH

COVARIANCE	-32.599	SAMPLE SIZE = 30240 POINTS
STD. ERR. OF COVARIANCE	1.055	
STD. DEV. OF COVARIANCE	183.440	SPANNING RANGE
CORRELATION COEFFICIENT	-.295	FROM 78- VII-29 22.00.56
VECTOR MEAN	8.786	TO 78- IX -07 06.59.03
VECTOR VARIANCE	115.564	
VECTOR STD. DEV.	10.750	DURATION 39.37 DAYS

DATA/ 651.10C112.5 SUBSURFACE MOORING/ 106 M./ V-373

VARIABLE / UNITS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS
MEAN	-7.933	3.802	15.108	9.158
STD. ERR.	.517E-1	.680E-1	.480E-1	.104E-2
VARIANCE	80.637	139.758	69.720	.325E-1
STD. DEV.	8.991	11.822	8.350	.180
KURTOSIS	2.633	2.015	2.457	2.480
SKEWNESS	-.255	.164	.589	.467
MINIMUM	-34.473	-23.881	.213	8.743
MAXIMUM	18.708	32.606	38.098	9.648

EAST & NORTH

COVARIANCE	-31.841	SAMPLE SIZE = 30240 POINTS
STD. ERR. OF COVARIANCE	.989	
STD. DEV. OF COVARIANCE	172.008	SPANNING RANGE
CORRELATION COEFFICIENT	-.300	FROM 78- VII-29 22.00.56
VECTOR MEAN	8.797	TO 78- IX -07 06.59.03
VECTOR VARIANCE	110.297	
VECTOR STD. DEV.	10.502	DURATION 39.37 DAYS

DATA/ 651.13B112.5 SUBSURFACE MOORING/ 115 M./ V-101

VARIABLE / UNITS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS
MEAN	-6.877	5.174	15.212	9.115
STD. ERR.	.483E-1	.729E-1	.495E-1	.101E-2
VARIANCE	70.569	160.874	74.108	.307E-1
STD. DEV.	8.402	12.684	8.609	.175
KURTOSIS	2.762	2.073	2.635	2.617
SKEWNESS	-.369E-1	.332	.701	.531
MINIMUM	-31.528	-21.761	.944E-1	8.693
MAXIMUM	19.865	36.025	38.687	9.590

EAST & NORTH

COVARIANCE	-20.579	SAMPLE SIZE = 30240 POINTS
STD. ERR. OF COVARIANCE	1.003	
STD. DEV. OF COVARIANCE	174.439	SPANNING RANGE
CORRELATION COEFFICIENT	-.193	FROM 78- VII-29 22.00.56
VECTOR MEAN	8.606	TO 78- IX -07 06.59.03
VECTOR VARIANCE	115.732	
VECTOR STD. DEV.	10.758	DURATION 39.37 DAYS

DATA/ 651,148112.5 SUBSURFACE MOORING/ 118 M./ V-105

VARIABLE / UNITS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS
MEAN	-6.896	5.235	15.088	9.095
STD. ERR.	.483E-1	.718E-1	.495E-1	.995E-3
VARIANCE	70.649	155.998	73.962	.300E-1
STD. DEV.	8.405	12.490	8.600	.173
KURTOSIS	2.706	2.089	2.650	2.638
SKEWNESS	-.283E-1	.357	.712	.534
MINIMUM	-31.197	-20.085	.105	8.679
MAXIMUM	19.305	35.652	38.754	9.564

EAST & NORTH

COVARIANCE	-20.448
STD. ERR. OF COVARIANCE	.997
STD. DEV. OF COVARIANCE	173.331
CORRELATION COEFFICIENT	-.195
VECTOR MEAN	8.658
VECTOR VARIANCE	113.323
VECTOR STD. DEV.	10.645

SAMPLE SIZE = 30240 POINTS

SPANNING RANGE
FROM 78- VII-29 22.00.56
TO 78- IX -07 06.59.03

DURATION 39.37 DAYS

DATA/ 651,16A112.5 SUBSURFACE MOORING/ 124 M./ DT-5116

VARIABLE / UNITS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	TDIF. MDEG/M
MEAN	-9.446	4.709	15.166	9.074	3.887
STD. ERR.	.806E-1	.709E-1	.805E-1	.991E-3	.889E-1
VARIANCE	77.290	152.200	77.109	.297E-1	105.089
STD. DEV.	8.791	12.337	8.781	.172	10.248
KURTOSIS	2.688	2.141	2.712	2.611	12.738
SKEWNESS	-.187	.333	.756	.470	.366
MINIMUM	-32.973	-19.222	.892E-1	8.611	-92.586
MAXIMUM	17.247	35.361	39.346	9.537	96.389

EAST & NORTH

COVARIANCE	-29.768
STD. ERR. OF COVARIANCE	1.097
STD. DEV. OF COVARIANCE	183.738
CORRELATION COEFFICIENT	-.274
VECTOR MEAN	8.810
VECTOR VARIANCE	114.745
VECTOR STD. DEV.	10.712

SAMPLE SIZE = 30240 POINTS

SPANNING RANGE
FROM 78- VII-29 22.00.56
TO 78- IX -07 06.59.03

DURATION 39.37 DAYS

DATA/ 651,198112.5 SUBSURFACE MOORING/ 121 M./ DT-5115

VARIABLE / UNITS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	TDIF. MDEG/M
MEAN	-7.883	3.623	15.124	9.085	3.833
STD. ERR.	.536E-1	.687E-1	.500E-1	.993E-3	.859E-1
VARIANCE	86.793	142.714	75.574	.298E-1	106.916
STD. DEV.	9.316	11.946	8.693	.173	10.340
KURTOSIS	2.738	2.108	2.697	2.624	19.622
SKEWNESS	-.383	.225	.738	.505	.688
MINIMUM	-35.408	-22.811	.100	8.654	-108.376
MAXIMUM	17.101	32.645	38.530	9.563	154.333

EAST & NORTH

COVARIANCE	-27.479
STD. ERR. OF COVARIANCE	1.044
STD. DEV. OF COVARIANCE	181.527
CORRELATION COEFFICIENT	-.337
VECTOR MEAN	8.649
VECTOR VARIANCE	116.756
VECTOR STD. DEV.	10.712

SAMPLE SIZE = 30240 POINTS

SPANNING RANGE
FROM 78- VII-29 22.00.56
TO 78- IX -07 06.59.03

DURATION 39.37 DAYS

DATA/ 651,17A112.5 SUBSURFACE MOORING/ 185 M./ DT-5117

VARIABLE / UNITS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	TDIF. MDEG/M
MEAN	-7.291	4.241	14.682	8.935	-.814
STD. ERR.	.673E-1	.672E-1	.850E-1	.852E-3	.390E-1
VARIANCE	67.534	136.671	61.258	.219E-1	45.967
STD. DEV.	8.218	11.691	7.827	.148	6.778
KURTOSIS	2.517	2.085	2.567	2.801	15.527
SKEWNESS	-.130	.192	.679	.110	-.399
MINIMUM	-29.706	-19.369	.144	8.388	-66.480
MAXIMUM	14.381	32.965	37.018	9.303	62.362

EAST & NORTH

COVARIANCE	-21.956
STD. ERR. OF COVARIANCE	.917
STD. DEV. OF COVARIANCE	159.382
CORRELATION COEFFICIENT	-.229
VECTOR MEAN	8.521
VECTOR VARIANCE	102.102
VECTOR STD. DEV.	10.105

SAMPLE SIZE = 30240 POINTS

SPANNING RANGE
FROM 78- VII-29 22.00.56
TO 78- IX -07 06.59.03

DURATION 39.37 DAYS

DATA/ 651.18A112.5 SUBSURFACE MOORING/ 200 M./ DT=5101

VARIABLE	EAST	NORTH	SPEED	TEMPERATURE	TDIF.
UNITS	CM/SEC	CM/SEC	CM/SEC	CELSIUS	MDEG/M
MEAN	-7.393	4.225	14.407	8.914	-3.908
STD. ERR.	.464E-1	.654E-1	.443E-1	.850E-3	.374E-1
VARIANCE	64.994	129.491	59.442	.219E-1	42.337
STD. DEV.	8.062	11.379	7.710	.148	6.507
KURTOSIS	2.532	2.080	2.584	2.833	16.045
SKEWNESS	-.165	.174	.702	.466E-1	-.168
MINIMUM	-29.838	-19.706	.415	8.332	-71.762
MAXIMUM	12.994	32.301	36.750	9.279	96.972

EAST & NORTH

COVARIANCE	=	-22.746
STD. ERR. OF COVARIANCE	=	.891
STD. DEV. OF COVARIANCE	=	156.930
CORRELATION COEFFICIENT	=	-.248
VECTOR MEAN	=	8.515
VECTOR VARIANCE	=	97.243
VECTOR STD. DEV.	=	9.861

SAMPLE SIZE = 30240 POINTS

SPANNING RANGE
FROM 78- VII-29 22.00.56
TO 78- IX -07 06.59.03

DURATION 39.37 DAYS

DATA/ 651.19A112.5 SUBSURFACE MOORING/ 210 M./ V=431

VARIABLE	EAST	NORTH	SPEED	TEMPERATURE
UNITS	CM/SEC	CM/SEC	CM/SEC	CELSIUS
MEAN	-7.439	3.831	14.407	8.899
STD. ERR.	.464E-1	.660E-1	.444E-1	.845E-3
VARIANCE	65.199	131.886	59.532	.216E-1
STD. DEV.	8.075	11.484	7.716	.147
KURTOSIS	2.527	2.109	2.506	2.814
SKEWNESS	-.193	.160	.658	-.317E-1
MINIMUM	-29.378	-21.554	.574	8.320
MAXIMUM	12.388	31.230	35.738	9.254

EAST & NORTH

COVARIANCE	=	-24.221
STD. ERR. OF COVARIANCE	=	.884
STD. DEV. OF COVARIANCE	=	153.738
CORRELATION COEFFICIENT	=	-.261
VECTOR MEAN	=	8.368
VECTOR VARIANCE	=	98.543
VECTOR STD. DEV.	=	9.927

SAMPLE SIZE = 30240 POINTS

SPANNING RANGE
FROM 78- VII-29 22.00.56
TO 78- IX -07 06.59.03

DURATION 39.37 DAYS

DATA/ 651,20A112.5 SUBSURFACE MOORING/ 295 M./ DT-5102

VARIABLE	EAST	NORTH	SPEED	TEMPERATURE
UNITS	CM/SEC	CM/SEC	CM/SEC	CELSIUS
MEAN	-7.572	3.263	13.746	8.757
STD. ERR.	.638E-1	.615E-1	.412E-1	.893E-3
VARIANCE	97.979	114.399	51.420	.241E-1
STD. DEV.	7.614	10.696	7.171	.155
KURTOSIS	2.674	2.136	2.471	2.498
SKEWNESS	-.276	.135	.640	.176
MINIMUM	-29.639	-23.814	.366	8.259
MAXIMUM	11.774	29.690	33.372	9.119

EAST & NORTH

COVARIANCE		-22.810
STD. ERR. OF COVARIANCE		.767
STD. DEV. OF COVARIANCE		133.404
CORRELATION COEFFICIENT		-.276
VECTOR MEAN		8.265
VECTOR VARIANCE		86.189
VECTOR STD. DEV.		9.284

SAMPLE SIZE = 30240 POINTS

SPANNING RANGE
FROM 78- VII-29 22:00:56
TO 78- IX -07 06:59:03

DURATION 39.37-DAYS

DATA/ 651,21A112.5 SUBSURFACE MOORING/ 300 M./ DT-5110

VARIABLE	EAST	NORTH	SPEED	TEMPERATURE	TDIF.
UNITS	CM/SEC	CM/SEC	CM/SEC	CELSIUS	MDEG/M
MEAN	-7.371	3.753	13.693	8.745	-3.601
STD. ERR.	.617E-1	.615E-1	.398E-1	.889E-3	.301E-1
VARIANCE	92.663	114.372	47.945	.239E-1	97.388
STD. DEV.	7.287	10.694	6.924	.155	9.870
KURTOSIS	2.577	2.055	2.347	2.557	19.691
SKEWNESS	-.130	.108	.987	.234	1.011
MINIMUM	-28.224	-21.716	.402	8.250	-99.224
MAXIMUM	10.996	29.456	31.704	9.109	58.128

EAST & NORTH

COVARIANCE		-16.867
STD. ERR. OF COVARIANCE		.741
STD. DEV. OF COVARIANCE		128.813
CORRELATION COEFFICIENT		-.217
VECTOR MEAN		8.272
VECTOR VARIANCE		83.817
VECTOR STD. DEV.		9.139

SAMPLE SIZE = 30240 POINTS

SPANNING RANGE
FROM 78- VII-29 22:00:56
TO 78- IX -07 06:59:03

DURATION 39.37 DAYS

DATA/ 651,22A112.5 SUBSURFACE MOORING/ 310 M./ V-110M

VARIABLE	EAST	NORTH	SPEED	PRESSURE	TEMPERATURE
UNITS	CM/SEC	CM/SEC	CM/SEC	DECIBARS	CELSIUS
MEAN	-7.498	3.725	13.882	317.740	8.715
STD. ERR.	.618E-1	.898E-1	.399E-1	.134E-1	.872E-3
VARIANCE	92.840	108.000	47.836	5.403	.230E-1
STD. DEV.	7.269	10.392	6.873	2.324	.152
KURTOSIS	2.532	2.057	2.369	7.031	2.712
SKEWNESS	-.160	.121	.877	2.096	.339
MINIMUM	-27.606	-19.821	.438	315.124	8.237
MAXIMUM	11.180	28.966	31.729	329.110	9.089

EAST & NORTH

COVARIANCE		-16.733
STD. ERR. OF COVARIANCE		.729
STD. DEV. OF COVARIANCE		126.694
CORRELATION COEFFICIENT		-.221
VECTOR MEAN		8.369
VECTOR VARIANCE		80.420
VECTOR STD. DEV.		8.968

SAMPLE SIZE = 30240 POINTS

SPANNING RANGE
FROM 78- VII-29 22:00:56
TO 78- IX -07 06:59:03

DURATION 39.37 DAYS

DATA/ 651,23C112.5 SUBSURFACE MOORING/ 1000 M./ DT-5105

VARIABLE	EAST	NORTH	SPEED	TEMPERATURE
UNITS	CM/SEC	CM/SEC	CM/SEC	CELSIUS
MEAN	-4.283	.103	9.237	7.011
STD. ERR.	.280E-1	.452E-1	.248E-1	.163E-2
VARIANCE	23.642	61.900	18.579	.808E-1
STD. DEV.	4.862	7.868	4.310	.284
KURTOSIS	2.608	2.933	2.335	2.015
SKEWNESS	.898E-2	.117	.321	-.568
MINIMUM	-17.700	-20.194	1.698	6.290
MAXIMUM	9.674	21.490	22.845	7.544

EAST & NORTH

COVARIANCE		.691E-1
STD. ERR. OF COVARIANCE		.282
STD. DEV. OF COVARIANCE		49.076
CORRELATION COEFFICIENT		.181E-2
VECTOR MEAN		4.284
VECTOR VARIANCE		42.771
VECTOR STD. DEV.		6.540

SAMPLE SIZE = 30240 POINTS

SPANNING RANGE
FROM 78- VII-29 22:00:56
TO 78- IX -07 06:59:03

DURATION 39.37 DAYS

SURFACE MOORING 5m. /VMCM *** 68218 ***		
PERIOD	SPEED	STATISTIC
5 DAYS	CM/SEC	
(1)	25.410	MEAN
(2)	28.586	
(3)	22.311	
(4)	14.988	
(5)	20.179	
(6)	17.808	
(7)	11.947	
(8)	21.066	
(1)	104.989	VARIANCE
(2)	40.528	
(3)	68.445	
(4)	144.111	
(5)	101.139	
(6)	84.842	
(7)	26.054	
(8)	110.955	
(1)	10.246	STANDARD DEVIATION
(2)	6.366	
(3)	8.273	
(4)	12.005	
(5)	10.057	
(6)	9.211	
(7)	5.104	
(8)	10.534	
(1)	-.295	SKEWNESS
(2)	-.0942	
(3)	.0198	
(4)	1.084	
(5)	.442	
(6)	.500	
(7)	.287	
(8)	.0900	
(1)	2.449	KURTOSIS
(2)	2.890	
(3)	2.742	
(4)	3.271	
(5)	2.614	
(6)	3.179	
(7)	2.870	
(8)	2.029	
(1)	.693	MINIMUM
(2)	11.782	
(3)	.190	
(4)	.135	
(5)	.213	
(6)	.190	
(7)	.0952	
(8)	.476	
(1)	50.468	MAXIMUM
(2)	52.623	
(3)	45.446	
(4)	53.727	
(5)	54.707	
(6)	52.354	
(7)	29.615	
(8)	50.026	

PERIOD	SURFACE MOORING 10m. /VMCM*** 6522 *** EAST	NORTH	SPEED	STATISTIC
5 DAYS	CM/SEC	CM/SEC	CM/SEC	
(1)	-15.196	10.157	23.337	
(2)	-16.975	12.913	23.604	
(3)	.411	12.631	15.372	
(4)	2.024	2.483	12.723	
(5)	.163	-9.429	21.949	MEAN
(6)	-5.706	-9.312	19.953	
(7)	-3.289	-9.305	14.573	
(8)	-1.253	-9.456	22.436	
(1)	147.324	168.317	105.132	
(2)	76.196	72.506	46.452	
(3)	60.001	68.413	51.816	
(4)	131.132	105.805	85.329	
(5)	240.620	268.961	116.748	VARIANCE
(6)	182.324	184.059	87.536	
(7)	80.817	67.005	32.865	
(8)	245.200	279.293	112.100	
(1)	12.138	12.974	10.253	
(2)	8.729	8.515	6.816	
(3)	7.746	8.271	7.198	
(4)	11.451	10.286	9.237	STANDARD
(5)	15.512	16.400	10.805	DEVIATION
(6)	13.503	13.567	9.356	
(7)	8.990	8.186	5.733	
(8)	15.659	16.712	10.588	
(1)	.104	-.209	-.153	
(2)	-.109	-.015	-.204	
(3)	.172	-.091	.0982	
(4)	.723	.386	1.118	
(5)	.017	.009	.365	SKEWNESS
(6)	-.258	.205	.405	
(7)	.102	.390	.0369	
(8)	-.109	-.024	.391	
(1)	2.335	2.488	2.322	
(2)	2.395	2.366	2.551	
(3)	3.113	2.559	2.260	
(4)	3.552	3.947	3.640	
(5)	2.236	2.870	2.496	KURTOSIS
(6)	2.559	2.341	2.950	
(7)	2.465	2.746	2.665	
(8)	2.441	2.333	2.506	
(1)	-43.012	-23.288	.393	
(2)	-41.666	-9.568	3.251	
(3)	-18.878	-10.817	.0952	
(4)	-21.645	-30.144	.000	
(5)	-40.636	-47.894	.135	MINIMUM
(6)	-44.081	-45.891	.213	
(7)	-24.654	-29.765	.190	
(8)	-45.409	-47.173	.513	
(1)	19.059	40.409	48.535	
(2)	2.287	34.947	43.100	
(3)	26.114	35.669	35.697	
(4)	39.904	38.149	45.172	
(5)	36.205	40.407	50.609	MAXIMUM
(6)	21.558	22.762	52.035	
(7)	19.575	14.374	30.277	
(8)	33.300	29.149	50.150	

SURFACE MOORING 15m. /VMCM *** 6523 ***

PERIOD 5 DAYS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	STATISTIC
(1)	-14.445	10.037	22.080	
(2)	-15.266	13.740	22.885	
(3)	-1.830	11.355	14.399	
(4)	.792	3.122	11.708	
(5)	-2.511	-6.862	21.041	MEAN
(6)	-6.387	-6.431	18.973	
(7)	-3.552	-6.958	13.116	
(8)	-1.891	-10.657	22.407	
(1)	125.609	137.856	85.308	
(2)	81.940	62.928	42.979	
(3)	57.371	66.911	49.219	
(4)	102.922	91.629	67.843	
(5)	235.749	248.668	95.102	VARIANCE
(6)	183.060	176.084	81.322	
(7)	83.652	62.866	35.525	
(8)	226.354	263.741	105.195	
(1)	11.208	11.741	9.236	
(2)	9.052	7.933	6.556	
(3)	7.574	8.180	7.016	
(4)	10.145	9.572	8.237	STANDARD
(5)	15.354	15.769	9.752	DEVIATION
(6)	13.530	13.270	9.018	
(7)	9.146	7.929	5.960	
(8)	15.045	16.240	10.256	
(1)	.340	-.117	-.00615	
(2)	-.082	-.019	-.140	
(3)	.259	-.020	.158	
(4)	.637	.193	1.025	
(5)	.052	-.029	.394	SKEWNESS
(6)	-.171	.218	.350	
(7)	.042	.194	.252	
(8)	-.161	.015	.436	
(1)	2.660	2.884	2.359	
(2)	2.361	2.699	2.575	
(3)	3.315	2.493	2.179	
(4)	3.588	4.208	3.458	
(5)	2.154	2.775	2.708	KURTOSIS
(6)	2.467	2.235	2.858	
(7)	2.344	2.788	2.697	
(8)	2.442	2.289	2.579	
(1)	-40.102	-23.485	.135	
(2)	-40.604	-11.731	3.301	
(3)	-22.851	-9.727	.286	
(4)	-24.426	-29.977	.135	
(5)	-41.547	-44.359	.393	MINIMUM
(6)	-43.288	-38.156	.0952	
(7)	-27.455	-29.388	.135	
(8)	-41.202	-50.353	.814	
(1)	19.298	42.314	47.609	
(2)	5.014	33.665	40.736	
(3)	25.490	33.361	34.953	
(4)	35.205	39.698	43.316	
(5)	33.400	38.639	47.954	MAXIMUM
(6)	22.290	24.051	48.586	
(7)	18.032	14.888	30.681	
(8)	31.742	26.650	51.206	

SPAR MOORING 15m. /ACM *** 6531D ***

PERIOD 5 DAYS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	STATISTIC
(1)	-16.971	16.099	27.711	12.714	
(2)	-19.166	18.254	29.156	12.992	
(3)	1.284	19.314	21.823	12.919	
(4)	.873	7.659	15.733	12.948	
(5)	-.980	-4.607	24.006	12.336	MEAN
(6)	-7.188	-6.056	19.248	12.179	
(7)	-6.067	-7.222	15.784	12.450	
(8)	-3.508	-6.032	25.081	12.439	
(1)	174.332	164.339	117.959	.115	
(2)	108.421	77.555	36.435	.0151	
(3)	93.251	89.164	80.831	.00930	
(4)	170.833	106.887	89.605	.00649	
(5)	311.279	337.923	95.088	.0470	VARIANCE
(6)	191.597	168.101	77.546	.0241	
(7)	115.714	85.057	40.600	.00569	
(8)	340.242	367.040	126.937	.00498	
(1)	13.203	12.819	10.861	.339	
(2)	10.413	8.807	6.036	.123	
(3)	9.657	9.443	8.991	.0965	
(4)	13.070	10.339	9.466	.0806	STANDARD
(5)	17.643	18.383	9.751	.217	DEVIATION
(6)	13.842	12.965	8.806	.155	
(7)	10.757	9.223	6.372	.0754	
(8)	18.446	19.158	11.267	.0705	
(1)	.144	-.409	-.0730	.295	
(2)	.347	-.464	-.188	-.0143	
(3)	.513	.108	.106	-3.594	
(4)	.255	.569	.906	-1.475	
(5)	.015	.080	.223	-.453	SKEWNESS
(6)	.045	.327	.0627	.484	
(7)	.220	.148	.0636	-.785	
(8)	-.193	-.055	.236	.643	
(1)	2.721	2.710	2.710	2.283	
(2)	2.564	3.336	2.142	4.260	
(3)	3.051	2.446	2.472	23.403	
(4)	2.930	3.508	3.306	5.541	
(5)	1.928	2.595	2.413	1.937	KURTOSIS
(6)	2.490	2.474	2.261	2.993	
(7)	2.346	2.151	2.246	5.174	
(8)	2.174	2.336	2.781	3.087	
(1)	-67.992	-24.077	1.758	11.710	
(2)	-39.756	-10.123	11.421	12.320	
(3)	-19.319	-3.181	.732	12.040	
(4)	-29.562	-17.085	.000	12.650	
(5)	-40.750	-50.271	2.185	11.840	MINIMUM
(6)	-42.890	-36.900	.732	11.910	
(7)	-31.266	-28.035	.293	12.100	
(8)	-53.226	-51.979	.879	12.220	
(1)	19.146	41.798	70.381	13.470	
(2)	12.955	38.126	42.189	13.310	
(3)	30.880	42.486	46.597	13.070	
(4)	35.425	43.356	47.626	13.140	
(5)	33.316	43.223	51.234	12.670	MAXIMUM
(6)	23.605	25.584	42.890	12.640	
(7)	19.664	13.254	31.341	12.630	
(8)	30.417	38.850	57.246	12.680	

*** 6531 continued

PERIOD 5 DAYS	PRESSURE #1 DECIBARS	PRESSURE #2 DECIBARS	PRESSURE #3 DECIBARS	STATISTIC
(1)				
(2)	13.021	13.022	13.022	
(3)	13.241	13.244	13.242	
(4)	13.239	13.241	13.242	
(5)	13.190	13.187	13.196	MEAN
(6)	13.493	13.494	13.495	
(7)	13.502	13.505	13.502	
(8)				
(1)				
(2)	.022	.023	.0234	
(3)	.026	.026	.0251	
(4)	.044	.044	.0462	
(5)	.053	.052	.0540	VARIANCE
(6)	.018	.018	.0181	
(7)	.010	.010	.00991	
(8)				
(1)				
(2)	.150	.153	.153	
(3)	.164	.162	.158	
(4)	.211	.212	.215	STANDARD DEVIATION
(5)	.231	.229	.232	
(6)	.134	.137	.134	
(7)	.101	.101	.0996	
(8)				
(1)				
(2)	-.111	-.105	-.140	
(3)	-.487	-.500	-.396	
(4)	-1.263	-1.276	-1.187	
(5)	-.329	-.411	-.397	SKEWNESS
(6)	-.504	-.623	-.610	
(7)	-.135	-.131	-.0431	
(8)				
(1)				
(2)	2.878	2.775	2.952	
(3)	3.506	3.547	3.171	
(4)	5.210	5.438	5.214	
(5)	3.076	3.069	3.067	KURTOSIS
(6)	3.034	3.340	3.381	
(7)	2.892	2.815	2.876	
(8)				
(1)				
(2)	12.568	12.441	12.441	
(3)	12.568	12.695	12.568	
(4)	12.314	12.314	12.314	
(5)	12.314	12.314	12.314	MINIMUM
(6)	12.949	12.949	12.949	
(7)	13.076	13.203	13.203	
(8)				
(1)				
(2)	13.457	13.457	13.457	
(3)	13.711	13.711	13.711	
(4)	13.711	13.838	14.092	
(5)	13.838	13.965	13.838	MAXIMUM
(6)	13.838	13.838	13.838	
(7)	13.711	13.838	13.838	
(8)				

SPAR MOORING 17m. /VACM *** 6532B ***

PERIOD	EAST	NORTH	SPEED	TEMPERATURE	STATISTIC
5 DAYS	CM/SEC	CM/SEC	CM/SEC	CELSIUS	
(1)	-17.577	14.216	26.087	12.535	
(2)	-19.205	17.213	28.066	12.964	
(3)	-1.092	17.628	20.440	12.919	
(4)	-.311	7.087	14.861	12.995	
(5)	-2.038	-5.147	23.682	12.391	MEAN
(6)	-7.343	-5.494	18.389	12.214	
(7)	-5.532	-6.489	15.098	12.473	
(8)	-2.835	-6.664	24.269	12.477	
(1)	146.579	127.796	104.890	.117	
(2)	85.250	65.533	28.161	.0268	
(3)	95.223	95.084	84.450	.0350	
(4)	157.017	103.782	90.288	.00568	
(5)	296.341	330.519	96.682	.0497	VARIANCE
(6)	171.811	158.531	76.282	.0179	
(7)	115.293	85.774	45.821	.00882	
(8)	301.192	346.163	110.810	.00388	
(1)	12.107	11.305	10.242	.342	
(2)	9.233	8.095	5.307	.164	
(3)	9.758	9.751	9.190	.187	
(4)	12.531	10.187	9.502	.0754	STANDARD
(5)	17.215	18.180	9.833	.223	DEVIATION
(6)	13.108	12.591	8.734	.134	
(7)	10.737	9.261	6.769	.0939	
(8)	17.355	18.605	10.527	.0623	
(1)	-.150	-.645	.204	.285	
(2)	.499	-.494	-.224	-1.417	
(3)	.521	-.037	-.0806	-3.078	
(4)	.362	.610	.863	-1.676	
(5)	.111	.150	-.0135	-.495	SKEWNESS
(6)	.101	.238	-.0679	.684	
(7)	.172	.017	.0496	-1.173	
(8)	-.131	.010	-.00428	-.115	
(1)	3.685	3.858	4.265	3.572	
(2)	2.676	3.774	2.150	6.923	
(3)	3.155	2.283	2.155	13.740	
(4)	3.120	3.639	3.063	5.959	
(5)	1.945	2.475	2.269	1.969	KURTOSIS
(6)	2.505	2.314	2.159	4.013	
(7)	2.318	2.187	2.175	4.673	
(8)	2.108	2.182	2.622	5.307	
(1)	-72.664	-42.665	.454	11.422	
(2)	-36.413	-13.975	9.979	12.041	
(3)	-23.566	-7.010	.664	11.647	
(4)	-32.782	-20.514	.0878	12.718	
(5)	-39.657	-47.042	.573	11.910	MINIMUM
(6)	-41.567	-37.099	.0898	11.977	
(7)	-31.796	-27.722	.261	12.144	
(8)	-48.301	-48.234	.441	12.154	
(1)	17.242	39.439	76.184	13.441	
(2)	9.690	35.727	38.942	13.352	
(3)	29.432	39.349	41.459	13.114	
(4)	36.158	42.266	45.472	13.122	
(5)	34.743	41.186	48.054	12.722	MAXIMUM
(6)	23.551	23.365	41.594	12.684	
(7)	20.144	15.817	31.875	12.676	
(8)	31.520	37.238	52.286	12.666	

SURFACE MOORING 20m. /VMCM *** 6524 ***

PERIOD	EAST	NORTH	SPEED	STATISTIC
	5 DAYS	CM/SEC	CM/SEC	CM/SEC	
(1)	-16.364	10.687	23.524	
(2)	-15.662	16.346	25.566	
(3)	-3.786	12.406	16.457	
(4)	-.196	4.430	12.791	
(5)	-5.611	-5.358	23.797	MEAN
(6)	-7.064	-7.022	21.973	
(7)	-3.524	-5.566	14.012	
(8)	-2.416	-13.685	25.806	
(1)	127.844	135.345	91.820	
(2)	109.926	84.650	53.415	
(3)	79.768	83.173	60.365	
(4)	108.674	102.267	66.987	
(5)	313.705	303.943	111.541	VARIANCE
(6)	240.494	249.803	106.683	
(7)	120.430	90.140	57.636	
(8)	287.346	327.227	141.763	
(1)	11.307	11.634	9.582	
(2)	10.485	9.201	7.309	
(3)	8.931	9.120	7.769	
(4)	10.425	10.113	8.185	STANDARD
(5)	17.712	17.434	10.561	DEVIATION
(6)	15.508	15.805	10.329	
(7)	10.974	9.494	7.592	
(8)	16.951	18.089	11.906	
(1)	.487	-.006	.102	
(2)	-.014	.006	-.134	
(3)	.144	-.046	.200	
(4)	.267	-.174	.895	
(5)	.059	.046	.405	SKEWNESS
(6)	-.145	.126	.301	
(7)	-.075	-.245	.537	
(8)	-.199	.019	.475	
(1)	3.248	3.416	2.660	
(2)	2.483	2.887	2.822	
(3)	2.555	2.734	2.535	
(4)	3.391	4.583	3.240	
(5)	2.128	2.658	2.955	KURTOSIS
(6)	2.534	2.239	2.733	
(7)	2.454	3.227	2.816	
(8)	2.451	2.374	2.714	
(1)	-42.466	-31.177	.000	
(2)	-47.630	-14.355	.486	
(3)	-28.819	-16.885	.0952	
(4)	-31.664	-33.925	.000	
(5)	-51.273	-48.082	.190	MINIMUM
(6)	-50.620	-49.122	.513	
(7)	-35.225	-36.895	.135	
(8)	-50.941	-59.274	.744	
(1)	21.586	50.695	51.547	
(2)	7.972	40.545	48.301	
(3)	23.957	38.640	43.484	
(4)	37.036	41.791	42.040	
(5)	33.637	47.680	55.428	MAXIMUM
(6)	26.189	29.826	53.727	
(7)	25.154	20.261	38.924	
(8)	35.166	32.393	61.919	

PERIOD	SURFACE MOORING 30m. /VMCM *** 6525 *** EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	STATISTIC
(1)	-12.336	10.466	18.022	
(2)	-14.018	14.716	22.084	
(3)	-4.821	11.154	13.383	
(4)	-2.266	3.490	9.117	
(5)	-5.823	-3.820	18.786	MEAN
(6)	-6.439	-4.843	18.679	
(7)	-3.315	-4.279	10.974	
(8)	-4.139	-11.356	19.425	
(1)	45.919	48.888	31.717	
(2)	56.880	41.799	25.292	
(3)	27.111	34.361	30.018	
(4)	37.452	55.733	27.378	
(5)	184.972	198.819	79.376	VARIANCE
(6)	188.494	175.434	79.945	
(7)	75.906	51.059	35.846	
(8)	146.665	181.489	96.895	
(1)	6.776	6.992	5.632	
(2)	7.542	6.465	5.029	
(3)	5.207	5.862	5.479	
(4)	6.120	7.465	5.232	STANDARD
(5)	13.600	14.100	8.909	DEVIATION
(6)	13.729	13.245	8.941	
(7)	8.712	7.146	5.987	
(8)	12.111	13.472	9.844	
(1)	.419	-.287	-.181	
(2)	.535	.096	-.447	
(3)	.389	.058	.129	
(4)	-.191	-.501	.587	
(5)	-.022	-.259	.514	SKEWNESS
(6)	-.140	.180	.396	
(7)	-.110	-.091	.642	
(8)	.007	-.092	.384	
(1)	2.618	2.811	2.773	
(2)	3.243	2.325	2.960	
(3)	3.220	3.089	2.873	
(4)	2.516	3.902	2.974	
(5)	2.122	2.582	3.006	KURTOSIS
(6)	2.386	2.268	2.851	
(7)	2.777	2.964	3.035	
(8)	2.362	2.276	2.076	
(1)	-29.449	-18.340	.687	
(2)	-31.077	-4.163	4.990	
(3)	-20.066	-5.774	.000	
(4)	-20.170	-28.319	.190	
(5)	-41.650	-39.136	.000	MINIMUM
(6)	-41.014	-38.154	.381	
(7)	-31.310	-26.014	.190	
(8)	-34.421	-41.938	.687	
(1)	11.332	27.564	33.405	
(2)	14.242	31.944	38.153	
(3)	13.038	32.070	32.221	
(4)	13.175	26.269	30.028	
(5)	22.508	32.634	45.551	MAXIMUM
(6)	21.505	25.510	44.645	
(7)	20.124	18.059	34.493	
(8)	24.833	25.469	43.372	

SURFACE MOORING 40m. /VMCM *** 6526 ***

PERIOD	EAST	NORTH	SPEED	STATISTIC
5 DAYS	CM/SEC	CM/SEC	CM/SEC	
(1)	-13.602	11.959	19.198	
(2)	-15.121	15.782	23.016	
(3)	-5.236	11.742	13.936	
(4)	-2.923	3.547	7.815	
(5)	-7.781	-1.988	14.405	MEAN
(6)	-6.696	-2.388	15.932	
(7)	-5.111	-3.402	9.771	
(8)	-4.340	-9.505	16.226	
(1)	35.815	33.040	28.331	
(2)	44.191	27.947	20.111	
(3)	26.201	22.860	20.129	
(4)	26.360	28.207	14.620	
(5)	113.906	100.540	71.447	VARIANCE
(6)	137.985	137.175	71.880	
(7)	56.322	38.004	36.555	
(8)	106.264	111.932	64.094	
(1)	5.985	5.748	5.323	
(2)	6.648	5.287	4.485	
(3)	5.119	4.781	4.487	
(4)	5.134	5.311	3.824	STANDARD
(5)	10.673	10.027	8.453	DEVIATION
(6)	11.747	11.712	8.478	
(7)	7.505	6.165	6.046	
(8)	10.308	10.580	8.006	
(1)	.216	.015	-.163	
(2)	.613	.110	-.572	
(3)	.216	.101	-.115	
(4)	-.035	-.217	.227	
(5)	-.237	-.509	.984	SKEWNESS
(6)	-.379	.274	.533	
(7)	-.277	-.421	.804	
(8)	-.193	.114	.455	
(1)	2.405	2.218	2.331	
(2)	3.433	2.763	3.484	
(3)	2.956	2.483	2.716	
(4)	2.826	2.253	2.267	
(5)	2.836	2.895	3.551	KURTOSIS
(6)	2.619	2.244	2.645	
(7)	3.227	3.267	3.167	
(8)	2.443	2.481	2.424	
(1)	-27.968	-13.841	2.288	
(2)	-28.873	-.394	2.080	
(3)	-20.473	-1.851	.213	
(4)	-18.800	-10.240	.000	
(5)	-38.668	-33.265	.000	MINIMUM
(6)	-38.138	-27.574	.301	
(7)	-31.631	-24.770	.0952	
(8)	-33.913	-37.231	.135	
(1)	2.804	25.294	32.421	
(2)	7.978	32.117	34.930	
(3)	10.661	24.522	25.926	
(4)	11.366	17.039	19.950	
(5)	19.266	20.188	45.337	MAXIMUM
(6)	25.051	26.105	42.135	
(7)	16.137	13.750	31.956	
(8)	23.271	19.435	39.269	

SURFACE MOORING 50m. /VMCM *** 6827 ***

PERIOD	EAST	NORTH	SPEED	STATISTIC
	CM/SEC	CM/SEC	CM/SEC	
(1)	-14.105	12.054	19.375	MEAN
(2)	-16.615	15.752	23.823	
(3)	-5.262	12.971	15.049	
(4)	-2.653	3.573	6.882	
(5)	-6.182	-2.305	10.744	
(6)	-6.351	-3.190	13.995	
(7)	-5.793	-4.424	10.037	
(8)	-3.678	-8.751	13.611	
(1)	28.208	25.691	22.756	VARIANCE
(2)	31.897	23.121	11.646	
(3)	29.577	22.853	21.887	
(4)	17.098	24.806	14.349	
(5)	66.869	46.629	41.894	
(6)	100.815	94.759	50.219	
(7)	49.017	35.841	37.257	
(8)	63.090	79.110	47.043	
(1)	5.311	5.069	4.770	STANDARD DEVIATION
(2)	5.648	4.808	3.413	
(3)	5.438	4.781	4.678	
(4)	4.135	4.981	3.788	
(5)	8.177	6.829	6.449	
(6)	10.041	9.734	7.087	
(7)	7.001	5.987	6.104	
(8)	7.943	8.894	6.859	
(1)	.043	.157	-.0229	SKEWNESS
(2)	.825	.241	-.562	
(3)	.175	.079	-.151	
(4)	-.436	-.089	.525	
(5)	-.431	-.078	1.040	
(6)	-.235	.375	.370	
(7)	-.678	-.303	.769	
(8)	-.166	.128	.535	
(1)	2.502	2.149	2.464	KURTOSIS
(2)	3.789	2.693	3.892	
(3)	2.902	2.801	2.733	
(4)	2.929	2.547	2.707	
(5)	3.241	2.745	3.970	
(6)	2.635	2.259	2.970	
(7)	4.134	3.121	3.255	
(8)	2.498	2.729	2.834	
(1)	-29.203	-1.500	7.891	MINIMUM
(2)	-29.085	3.169	8.100	
(3)	-21.678	-.700	2.522	
(4)	-17.353	-10.627	.000	
(5)	-38.534	-21.412	.0952	
(6)	-36.083	-23.739	.0952	
(7)	-35.723	-25.835	.000	
(8)	-25.994	-33.223	.213	
(1)	1.605	24.392	32.176	MAXIMUM
(2)	4.079	29.620	33.814	
(3)	12.021	29.855	30.189	
(4)	8.370	18.214	19.125	
(5)	13.878	19.892	39.963	
(6)	16.948	23.953	39.470	
(7)	15.503	10.827	37.328	
(8)	14.798	17.268	35.267	

SURFACE MOORING 70m. /VMCM *** 6889 ***

PERIOD 5 DAYS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	STATISTIC
(1)	-14.446	11.297	19.078	MEAN
(2)	-18.076	16.288	25.527	
(3)	-3.794	13.731	15.465	
(4)	-2.465	3.268	5.991	
(5)	-3.225	-3.740	8.214	
(6)	-6.993	-5.098	11.139	
(7)	-6.698	-4.623	9.899	
(8)	-2.348	-7.548	10.269	
(1)	32.422	22.383	27.161	VARIANCE
(2)	42.100	29.121	11.590	
(3)	35.431	26.940	26.148	
(4)	12.917	17.251	11.030	
(5)	32.651	36.678	26.249	
(6)	37.798	37.033	25.661	
(7)	33.036	27.322	28.550	
(8)	30.631	39.062	26.718	
(1)	5.694	4.731	5.212	STANDARD DEVIATION
(2)	6.488	5.396	3.404	
(3)	5.952	5.190	5.114	
(4)	3.594	4.153	3.321	
(5)	5.714	6.056	5.123	
(6)	6.148	6.085	5.066	
(7)	5.748	5.227	5.343	
(8)	5.534	6.250	5.169	
(1)	-.074	.156	.222	SKEWNESS
(2)	.266	.028	-.117	
(3)	-.020	.261	.0647	
(4)	-.268	-.111	.646	
(5)	-.143	-.350	1.047	
(6)	.236	.610	.184	
(7)	-.339	.344	.301	
(8)	.261	.112	.304	
(1)	2.858	2.251	3.474	KURTOSIS
(2)	2.714	2.359	2.841	
(3)	2.431	2.678	2.865	
(4)	2.643	2.605	3.046	
(5)	2.698	2.786	3.628	
(6)	2.970	3.165	2.701	
(7)	3.343	3.085	2.458	
(8)	2.489	2.436	2.596	
(1)	-33.141	.197	3.346	MINIMUM
(2)	-34.274	1.796	15.055	
(3)	-19.154	1.721	1.963	
(4)	-12.583	-8.383	.000	
(5)	-20.486	-20.318	.0952	
(6)	-30.785	-20.030	.135	
(7)	-24.704	-23.461	.000	
(8)	-14.268	-25.152	.213	
(1)	.582	24.351	35.205	MAXIMUM
(2)	.169	29.995	36.169	
(3)	12.568	28.439	30.605	
(4)	7.752	15.405	17.875	
(5)	12.233	10.934	25.694	
(6)	9.189	18.746	31.358	
(7)	10.421	12.071	24.714	
(8)	13.228	8.785	25.729	

SUBSURFACE MOORING 79m. /DT *** 6511A ***

PERIOD 5 DAYS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	TDIF. MDEG/M	STATISTIC
(1)	-15.339	13.704	21.336	9.453	17.480	
(2)	-16.919	21.438	28.645	9.590	22.356	
(3)	-2.309	15.078	16.583	9.612	18.010	
(4)	-1.960	4.518	8.238	9.649	14.977	
(5)	-3.859	-4.064	11.085	9.501	16.335	MEAN
(6)	-6.638	-5.812	12.410	9.239	15.489	
(7)	-8.665	-4.365	11.847	9.290	13.463	
(8)*	-1.639	-7.829	10.968	9.329	13.842	
(1)	39.645	21.129	28.636	.0410	452.823	
(2)	59.726	31.937	16.981	.0387	221.165	
(3)	40.317	27.184	25.195	.0215	244.897	
(4)	21.493	31.614	9.505	.0392	294.391	
(5)	62.505	53.409	24.451	.0547	278.026	VARIANCE
(6)	55.815	45.440	25.083	.0369	268.626	
(7)	39.431	38.469	31.688	.0202	162.082	
(8)*	40.936	36.335	20.955	.0143	159.629	
(1)	6.296	4.597	5.351	.203	21.280	
(2)	7.728	5.651	4.121	.197	14.872	
(3)	6.350	5.214	5.019	.147	15.649	
(4)	4.636	5.623	3.083	.198	17.158	STANDARD
(5)	7.906	7.308	4.945	.234	16.674	DEVIATION
(6)	7.471	6.741	5.008	.192	16.390	
(7)	6.279	6.202	5.629	.142	12.731	
(8)*	6.398	6.028	4.578	.119	12.634	
(1)	.131	.204	.509	-.0237	.193	
(2)	.220	-.070	-.374	.206	.906	
(3)	.106	.283	.125	.269	1.118	
(4)	-.188	-.575	.177	-.808	1.984	
(5)	.115	.153	1.031	-.353	1.773	SKEWNESS
(6)	.494	.549	.0240	2.894	1.973	
(7)	-.470	.457	.741	.268	1.261	
(8)*	.297	.361	.00789	.896	1.542	
(1)	3.376	2.689	2.996	2.952	6.720	
(2)	2.737	2.756	2.577	2.427	4.113	
(3)	2.189	2.361	2.504	3.226	7.002	
(4)	2.254	2.550	2.173	3.071	14.172	
(5)	2.203	2.496	3.747	2.140	10.508	KURTOSIS
(6)	2.781	2.844	2.006	24.312	13.567	
(7)	3.633	2.637	3.528	3.143	6.117	
(8)*	2.390	2.419	2.372	3.836	10.012	
(1)	-32.847	.967	8.234	8.884	-110.459	
(2)	-33.656	6.089	16.421	9.017	-34.023	
(3)	-16.284	1.934	3.579	9.219	-45.213	
(4)	-12.659	-11.304	1.302	9.102	-54.349	
(5)	-21.982	-21.962	2.197	8.908	-59.205	MINIMUM
(6)	-23.412	-17.997	1.028	8.934	-39.334	
(7)	-27.092	-19.008	1.632	8.947	-38.328	
(8)*	-16.054	-20.980	1.353	9.080	-86.412	
(1)	4.545	27.771	36.368	10.049	122.265	
(2)	6.626	35.626	37.183	10.138	96.924	
(3)	12.937	28.329	29.066	10.271	114.255	
(4)	9.106	15.337	16.637	10.061	164.906	
(5)	14.360	13.140	27.534	10.184	128.576	MAXIMUM
(6)	14.506	20.696	24.836	11.682	193.779	
(7)	7.285	12.851	31.400	9.878	84.401	
(8)*	15.860	9.113	23.530	9.886	104.460	

SURFACE MOORING 79m. /VACM *** 652,10A ***

PERIOD 5 DAYS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	STATISTIC
(1)	-17.831	15.837	24.711	9.490	MEAN
(2)	-21.833	22.128	32.408	9.735	
(3)	-5.395	20.553	23.009	9.682	
(4)	-4.726	5.964	11.056	9.605	
(5)	-5.162	-5.420	13.560	9.481	
(6)	-10.127	-7.987	16.532	9.224	
(7)	-10.901	-7.222	16.472	9.291	
(8)	-3.790	-10.805	15.653	9.356	
(1)	39.327	29.925	27.364	.0438	VARIANCE
(2)	53.938	36.944	6.922	.0386	
(3)	73.708	27.332	23.183	.0157	
(4)	34.808	51.365	21.836	.0252	
(5)	88.584	86.203	46.939	.0510	
(6)	66.761	73.489	33.291	.0284	
(7)	67.365	74.364	41.403	.0230	
(8)	75.614	71.081	32.783	.0105	
(1)	6.271	5.470	5.231	.209	STANDARD DEVIATION
(2)	7.344	6.078	2.631	.196	
(3)	8.585	5.228	4.815	.125	
(4)	5.900	7.167	4.673	.159	
(5)	9.412	9.285	6.851	.226	
(6)	8.171	8.573	5.770	.169	
(7)	8.208	8.623	6.434	.152	
(8)	8.696	8.431	5.726	.102	
(1)	.016	-.049	.247	-.228	SKEWNESS
(2)	.553	-.275	-.0198	-.0798	
(3)	.003	-.039	-.238	.198	
(4)	.141	-.530	.283	.135	
(5)	.082	.090	.606	-.116	
(6)	.823	.519	-.207	2.322	
(7)	.217	.549	-.164	-.0862	
(8)	.603	.686	-.378	.288	
(1)	3.062	2.344	3.564	2.985	KURTOSIS
(2)	2.973	2.296	3.201	2.255	
(3)	2.153	2.424	2.908	3.138	
(4)	2.660	2.808	2.699	2.576	
(5)	2.374	2.362	2.896	2.031	
(6)	3.379	2.705	2.470	13.243	
(7)	3.027	2.772	2.374	2.344	
(8)	2.547	2.768	2.662	2.955	
(1)	-37.033	-.114	9.700	8.883	MINIMUM
(2)	-37.856	5.553	22.999	9.241	
(3)	-27.899	4.494	5.586	9.296	
(4)	-21.390	-16.210	.607	9.136	
(5)	-27.762	-26.991	.197	9.004	
(6)	-26.616	-30.146	1.025	8.959	
(7)	-30.742	-24.293	.354	8.889	
(8)	-20.227	-28.371	.330	9.135	
(1)	4.306	31.378	40.299	10.100	MAXIMUM
(2)	1.025	34.660	41.045	10.183	
(3)	15.249	33.568	34.331	10.028	
(4)	13.599	22.831	25.075	10.024	
(5)	20.223	19.414	33.321	10.031	
(6)	18.233	20.054	32.808	10.656	
(7)	12.938	20.370	30.985	9.736	
(8)	20.319	16.924	29.288	9.726	

PERIOD	SPAR MOORING 79m. /DT *** 6536B *** EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	TDIF. MDEG/M	STATISTIC
5 DAYS						
(1)	-17.471	13.123	22.881	9.561		
(2)	-20.583	18.466	28.871	9.891		
(3)	-4.265	17.819	19.788	9.647		
(4)	-3.868	6.668	12.489	9.664		
(5)	-5.780	-3.882	13.973	9.529		MEAN
(6)	-8.114	-5.549	14.815	9.212		
(7)	-9.511	-5.314	14.525	9.309		
(8)	-2.384	-9.972	14.704	9.339		
(1)	49.191	40.100	43.213	.0335		
(2)	51.898	32.905	15.893	.0384		
(3)	51.456	30.436	26.028	.0262		
(4)	41.579	71.288	16.324	.0330		
(5)	73.576	99.978	26.784	.0435		VARIANCE
(6)	68.847	78.295	24.275	.0298		
(7)	64.878	68.845	41.443	.0226		
(8)	62.234	76.557	27.705	.0130		
(1)	7.014	6.332	6.574	.183		
(2)	7.204	5.736	3.987	.196		
(3)	7.173	5.517	5.102	.162		
(4)	6.448	8.443	4.040	.182		STANDARD
(5)	8.578	9.999	5.175	.209		DEVIATION
(6)	8.297	8.848	4.927	.173		
(7)	8.055	8.297	6.438	.150		
(8)	7.889	8.750	5.264	.114		
(1)	.040	-1.345	.180	.0397		
(2)	.376	-.061	-.317	-.532		
(3)	.064	-.016	-.330	.525		
(4)	-.034	-.706	.176	-.811		
(5)	.310	.532	.228	-.622		SKEWNESS
(6)	.826	.642	-.131	1.519		
(7)	-.161	.327	.681	.167		
(8)	.318	.601	-.0463	.726		
(1)	4.130	11.595	3.864	3.250		
(2)	3.041	2.310	2.590	2.609		
(3)	2.528	2.447	2.695	3.197		
(4)	2.631	2.773	2.882	3.412		
(5)	2.309	2.470	2.968	2.599		KURTOSIS
(6)	3.428	2.732	2.551	6.605		
(7)	3.271	2.450	3.519	2.837		
(8)	2.109	2.529	2.441	3.411		
(1)	-50.685	-42.028	3.674	9.076		
(2)	-36.781	1.928	16.565	9.289		
(3)	-21.684	2.032	2.053	9.179		
(4)	-21.654	-17.307	.357	9.092		
(5)	-28.611	-24.591	.543	8.992		MINIMUM
(6)	-24.909	-22.947	.713	8.932		
(7)	-35.047	-27.489	1.106	8.963		
(8)	-18.792	-28.299	.324	9.117		
(1)	9.689	30.371	56.876	10.223		
(2)	3.770	31.120	37.932	10.302		
(3)	17.384	36.113	36.160	10.176		
(4)	13.224	25.584	25.826	10.115		
(5)	16.242	24.776	31.420	10.008		MAXIMUM
(6)	18.580	20.291	28.160	10.314		
(7)	11.790	21.096	38.719	9.945		
(8)	15.938	14.858	28.342	9.756		

SUBSURFACE MOORING 82m./DT *** 6512C ***

PERIOD	EAST	NORTH	SPEED	TEMPERATURE	TDIF.	STATISTIC
5 DAYS	CM/SEC	CM/SEC	CM/SEC	CELSIUS	MDEG/M	
(1)	-16.983	12.364	21.726	9.403	13.756	
(2)	-19.877	20.043	29.518	9.524	18.442	
(3)	-3.457	15.116	16.764	9.561	14.412	
(4)	-2.156	4.345	8.102	9.604	13.000	
(5)	-3.806	-4.177	10.912	9.453	13.588	MEAN
(6)	-6.276	-6.187	12.373	9.194	12.673	
(7)	-8.545	-4.712	11.979	9.253	10.065	
(8)	-1.434	-7.847	10.803	9.293	9.694	
(1)	39.777	21.903	30.998	.0346	74.469	
(2)	53.278	37.289	16.048	.0370	01.580	
(3)	36.981	30.378	26.771	.0188	22.347	
(4)	21.512	29.076	8.475	.0421	66.965	
(5)	57.395	55.661	25.929	.0568	94.188	VARIANCE
(6)	55.068	47.045	26.684	.0269	42.918	
(7)	40.358	41.013	33.094	.0178	36.170	
(8)	38.216	35.177	20.330	.0110	36.493	
(1)	6.307	4.680	5.568	.186	21.782	
(2)	7.299	6.106	4.006	.192	14.198	
(3)	6.081	5.512	5.174	.137	14.911	
(4)	4.638	5.392	2.911	.205	16.339	STANDARD
(5)	7.576	7.461	5.092	.238	17.152	DEVIATION
(6)	7.421	6.859	5.166	.164	15.586	
(7)	6.353	6.404	5.753	.133	11.669	
(8)	6.182	5.931	4.509	.105	11.683	
(1)	.066	.152	.443	-.0559	.291	
(2)	.443	-.226	-.434	.331	.885	
(3)	-.093	.336	.225	.306	1.307	
(4)	-.135	-.565	.139	-.875	1.835	
(5)	.064	.114	1.043	-.259	1.966	SKEWNESS
(6)	.432	.450	.0909	2.719	1.241	
(7)	-.490	.439	.671	.316	1.204	
(8)	.301	.358	-.0183	1.001	.696	
(1)	3.428	3.669	2.891	3.005	9.066	
(2)	3.264	3.842	2.765	2.636	4.035	
(3)	2.374	2.272	2.486	3.331	8.559	
(4)	2.316	2.504	2.311	2.927	10.583	
(5)	2.257	2.528	3.750	1.951	10.931	KURTOSIS
(6)	2.672	2.677	1.992	22.067	7.851	
(7)	3.481	2.506	3.303	3.058	6.947	
(8)	2.336	2.277	2.194	4.235	6.684	
(1)	-34.215	-.879	8.156	8.862	21.039	
(2)	-35.721	2.967	16.131	8.909	34.020	
(3)	-18.792	2.553	3.662	9.196	66.052	
(4)	-12.956	-10.534	.617	9.086	53.272	
(5)	-21.118	-22.035	.550	8.875	51.178	MINIMUM
(6)	-23.145	-19.831	1.899	8.946	50.240	
(7)	-27.088	-19.335	.302	8.928	39.543	
(8)	-14.929	-20.584	.522	9.045	66.151	
(1)	3.183	25.276	36.855	9.993	69.708	
(2)	4.447	34.461	37.996	10.110	90.561	
(3)	11.039	29.773	30.769	10.177	26.553	
(4)	9.762	14.497	16.381	9.998	48.696	
(5)	13.479	13.847	27.476	9.982	27.278	MAXIMUM
(6)	14.469	18.743	24.279	11.275	21.111	
(7)	7.699	11.963	31.812	9.818	88.380	
(8)	13.905	7.977	22.643	9.862	94.433	

SPAR MOORING 83m. /ACM *** 6537D ***

PERIOD	EAST	NORTH	SPEED	TEMPERATURE	STATISTIC
5 DAYS	CM/SEC	CM/SEC	CM/SEC	CELSIUS	
(1)	-16.406	12.484	21.543	9.538	
(2)	-20.135	18.383	28.698	9.863	
(3)	-2.759	13.529	14.888	9.629	
(4)	-1.560	2.724	4.892	9.651	
(5)	-2.154	-1.566	5.140	9.519	MEAN
(6)	-6.012	-4.790	10.113	9.196	
(7)	-7.768	-4.236	10.975	9.297	
(8)	-2.046	-6.171	8.829	9.329	
(1)	48.900	35.499	45.338	.0308	
(2)	59.888	41.235	20.896	.0424	
(3)	30.890	45.292	45.194	.0238	
(4)	10.221	14.499	10.642	.0337	
(5)	22.076	20.632	23.377	.0476	VARIANCE
(6)	44.249	40.741	41.806	.0234	
(7)	63.222	44.062	65.112	.0208	
(8)	27.429	47.148	38.894	.0111	
(1)	6.993	5.958	6.733	.176	
(2)	7.739	6.421	4.571	.206	
(3)	5.558	6.730	6.723	.154	
(4)	3.197	3.809	3.262	.184	STANDARD
(5)	4.699	4.542	4.835	.218	DEVIATION
(6)	6.652	6.383	6.466	.153	
(7)	7.951	6.638	8.069	.144	
(8)	5.237	6.866	6.236	.105	
(1)	.203	.032	-.187	.0857	
(2)	.265	-.090	-.458	-.423	
(3)	-.248	.425	.266	.633	
(4)	-1.022	-.024	.831	-.921	
(5)	-1.351	-.902	1.804	-.540	SKEWNESS
(6)	-.111	-.310	.527	1.363	
(7)	-.955	-.124	.880	.229	
(8)	-.199	-.512	.535	.700	
(1)	3.196	2.636	2.620	3.162	
(2)	2.933	2.357	2.801	2.521	
(3)	2.912	2.601	2.519	3.570	
(4)	3.963	3.086	3.195	3.484	
(5)	5.109	4.531	6.355	2.308	KURTOSIS
(6)	2.782	2.917	2.360	5.563	
(7)	3.765	3.721	3.297	2.799	
(8)	2.783	2.467	2.377	3.323	
(1)	-34.607	-4.663	3.634	9.080	
(2)	-38.641	-.594	14.029	9.180	
(3)	-21.376	.114	.439	9.190	
(4)	-14.474	-10.172	.000	9.090	
(5)	-25.590	-19.759	.000	9.000	MINIMUM
(6)	-24.195	-23.281	.000	8.930	
(7)	-37.354	-27.618	.000	8.980	
(8)	-17.027	-26.706	.000	9.120	
(1)	7.651	29.944	37.598	10.140	
(2)	4.707	33.807	39.315	10.300	
(3)	11.375	36.499	36.513	10.140	
(4)	5.587	14.451	16.757	10.070	
(5)	9.622	14.167	28.278	9.980	MAXIMUM
(6)	14.308	15.058	29.430	9.970	
(7)	10.205	21.740	41.076	9.840	
(8)	12.686	7.384	26.958	9.710	

SUBSURFACE MOORING 85m./VACM *** 6513B ***

PERIOD	EAST	NORTH	SPEED	TEMPERATURE	PRESSURE	STATISTIC
5 DAYS	CM/SEC	CM/SEC	CM/SEC	CELSIUS	DECIBARS	
(1)	-16.122	13.677	21.822	9.363	89.393	
(2)	-18.411	21.846	29.805	9.465	94.017	
(3)	-2.645	15.379	16.826	9.517	88.112	
(4)	-2.248	4.307	8.031	9.558	87.226	
(5)	-3.884	-4.328	10.934	9.411	87.404	MEAN
(6)	-6.384	-6.231	12.416	9.154	87.385	
(7)	-8.895	-4.871	12.358	9.219	87.535	
(8)	-1.754	-8.007	10.901	9.261	87.408	
(1)	37.757	22.484	31.020	.0284	4.157	
(2)	56.073	31.868	15.855	.0340	4.528	
(3)	37.164	27.199	24.762	.0149	1.453	
(4)	20.248	29.031	8.378	.0425	.531	
(5)	58.432	54.805	27.517	.0546	.517	VARIANCE
(6)	56.106	46.508	28.035	.0192	.106	
(7)	44.424	41.549	36.102	.0154	.158	
(8)	39.803	32.006	20.164	.00853	.287	
(1)	6.145	4.742	5.570	.169	2.039	
(2)	7.488	5.645	3.982	.184	2.128	
(3)	6.096	5.215	4.976	.122	1.206	
(4)	4.500	5.388	2.895	.206	.728	STANDARD
(5)	7.644	7.403	5.246	.234	.719	DEVIATION
(6)	7.490	6.820	5.295	.138	.326	
(7)	6.665	6.446	6.008	.124	.398	
(8)	6.309	5.657	4.490	.0924	.536	
(1)	.124	.246	.475	-.104	1.842	
(2)	.458	-.276	-.432	.438	.560	
(3)	.016	.336	.174	.207	1.225	
(4)	-.167	-.531	.131	-.862	.255	
(5)	-.021	.211	1.099	-.168	-.115	SKEWNESS
(6)	.404	.434	.178	2.099	-.043	
(7)	-.528	.462	.738	.297	.420	
(8)	.359	.397	-.0180	.898	-.118	
(1)	3.339	2.764	2.959	3.054	5.773	
(2)	3.386	3.223	2.800	2.839	3.491	
(3)	2.263	2.386	2.565	3.227	4.115	
(4)	2.263	2.325	2.198	2.771	2.131	
(5)	2.388	2.577	4.060	1.835	2.044	KURTOSIS
(6)	2.744	2.678	2.160	13.602	2.897	
(7)	3.508	2.561	3.442	2.807	3.434	
(8)	2.341	2.313	2.110	4.078	1.838	
(1)	-33.021	.063	8.132	8.867	87.154	
(2)	-35.438	4.659	16.425	8.913	89.533	
(3)	-16.292	3.240	4.275	9.194	86.540	
(4)	-12.552	-9.681	.984	9.076	85.988	
(5)	-22.717	-22.634	.506	8.857	85.910	MINIMUM
(6)	-23.433	-20.508	.567	8.932	86.555	
(7)	-28.409	-20.296	.148	8.930	86.760	
(8)	-15.638	-20.329	.361	9.007	86.351	
(1)	3.233	27.592	36.485	9.885	96.401	
(2)	6.608	35.179	38.181	10.050	100.512	
(3)	11.494	29.619	30.607	9.978	92.226	
(4)	9.873	13.893	15.986	9.963	89.029	
(5)	14.022	14.398	29.365	9.867	88.855	MAXIMUM
(6)	13.667	15.813	24.806	10.618	88.351	
(7)	7.382	13.424	32.622	9.619	89.029	
(8)	14.512	6.940	22.774	9.697	88.351	

SURFACE MOORING 85m. /VMCM *** 682.12 ***

PERIOD	EAST	NORTH	SPEED	STATISTIC
5 DAYS	CM/SEC	CM/SEC	CM/SEC	
(1)	-14.307	11.265	18.881	MEAN
(2)	-19.414	17.103	27.023	
(3)	-4.117	13.319	15.448	
(4)	-2.942	2.897	6.019	
(5)	-3.603	-3.786	8.570	
(6)	-6.896	-5.834	10.795	
(7)	-7.138	-5.371	10.959	
(8)	-1.921	-7.682	9.944	
(1)	27.712	20.257	24.184	VARIANCE
(2)	39.452	31.297	9.924	
(3)	40.080	24.483	20.264	
(4)	11.689	16.648	9.150	
(5)	36.315	36.130	26.319	
(6)	31.098	33.167	25.280	
(7)	41.086	34.286	35.065	
(8)	25.376	31.011	20.220	
(1)	5.264	4.501	4.918	STANDARD DEVIATION
(2)	6.281	5.594	3.150	
(3)	6.331	4.948	4.502	
(4)	3.419	4.080	3.025	
(5)	6.026	6.011	5.130	
(6)	5.577	5.759	5.028	
(7)	6.410	5.855	5.922	
(8)	5.037	5.569	4.497	
(1)	-.595	.075	.651	SKEWNESS
(2)	.576	-.342	.0491	
(3)	.146	.380	.212	
(4)	-.182	-.206	.419	
(5)	-.206	-.047	.919	
(6)	.303	.141	.0587	
(7)	-.564	.184	.423	
(8)	.551	.217	-.0327	
(1)	3.891	2.435	4.124	KURTOSIS
(2)	3.735	2.603	2.573	
(3)	2.265	3.021	3.406	
(4)	2.558	2.505	2.669	
(5)	2.863	2.429	3.552	
(6)	2.726	2.580	2.212	
(7)	3.544	2.541	2.636	
(8)	2.684	2.272	2.309	
(1)	-33.315	-.837	5.421	MINIMUM
(2)	-34.603	-.168	18.646	
(3)	-22.441	1.731	2.981	
(4)	-12.478	-9.347	.0952	
(5)	-21.226	-19.313	.000	
(6)	-20.872	-22.089	.000	
(7)	-28.386	-20.191	.000	
(8)	-14.495	-22.414	.190	
(1)	-.344	23.429	35.156	MAXIMUM
(2)	2.318	30.994	36.451	
(3)	11.080	29.043	29.846	
(4)	6.403	14.734	16.271	
(5)	13.272	11.169	25.092	
(6)	9.892	9.513	24.437	
(7)	11.545	10.881	28.914	
(8)	12.390	8.941	22.730	

SUBSURFACE MOORING 91m./DT *** 6515C ***

PERIOD 5 DAYS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	TDIF. MSEC/M	STATISTIC
(1)	-15.732	14.257	21.945	9.275	11.897	
(2)	-17.646	23.140	30.411	9.336	16.998	
(3)	-1.703	15.755	16.961	9.437	10.881	
(4)	-2.031	4.581	7.643	9.478	9.192	
(5)	-3.790	-4.167	10.547	9.329	10.197	MEAN
(6)	-6.488	-6.045	12.133	9.084	8.911	
(7)	-9.044	-4.751	12.382	9.157	8.809	
(8)	-1.891	-7.837	10.536	9.212	6.807	
(1)	34.342	26.421	29.958	.0232	314.375	
(2)	62.731	31.458	16.181	.0274	171.448	
(3)	35.737	25.619	24.796	.0116	156.686	
(4)	16.868	24.614	8.174	.0405	325.968	
(5)	57.459	48.910	26.864	.0549	231.986	VARIANCE
(6)	52.713	42.801	26.932	.0124	140.557	
(7)	44.527	39.646	35.223	.0136	106.044	
(8)	39.309	25.714	19.026	.00654	80.066	
(1)	5.860	5.140	5.473	.152	17.731	
(2)	7.920	5.609	4.023	.166	13.094	
(3)	5.978	5.062	4.980	.108	12.517	
(4)	4.107	4.961	2.859	.201	18.055	STANDARD
(5)	7.580	6.994	5.183	.234	15.231	DEVIATION
(6)	7.260	6.542	5.190	.111	11.856	
(7)	6.673	6.296	5.935	.116	10.298	
(8)	6.270	5.071	4.362	.0809	8.948	
(1)	.235	.280	.436	-.319	1.164	
(2)	.551	-.376	-.412	.615	1.010	
(3)	.058	.384	.292	.137	.509	
(4)	-.115	-.503	.0789	-.635	2.087	
(5)	-.032	.245	.908	.0864	2.154	SKEWNESS
(6)	.467	.340	.231	1.561	1.175	
(7)	-.387	.423	.558	.422	1.292	
(8)	.456	.330	.00615	.734	.082	
(1)	2.892	2.609	2.883	3.026	11.343	
(2)	3.628	3.885	2.605	3.433	4.265	
(3)	2.182	2.671	2.658	3.086	6.836	
(4)	2.105	2.225	2.031	2.177	18.890	
(5)	2.286	2.599	3.622	1.694	14.950	KURTOSIS
(6)	2.812	2.638	2.223	9.836	7.978	
(7)	3.101	2.484	2.981	2.754	6.167	
(8)	2.496	2.357	1.919	4.155	7.679	
(1)	-31.202	.889	8.256	8.841	-75.241	
(2)	-35.290	2.790	18.092	8.849	-16.628	
(3)	-16.008	5.002	6.308	9.151	-65.081	
(4)	-11.705	-9.193	.402	9.055	-82.950	
(5)	-22.964	-19.974	.458	8.818	-44.831	MINIMUM
(6)	-22.332	-20.923	1.123	8.861	-55.709	
(7)	-27.611	-19.476	1.939	8.897	-29.908	
(8)	-14.744	-18.804	1.191	8.970	-83.273	
(1)	2.859	28.010	35.926	9.725	176.193	
(2)	9.346	36.387	38.709	9.968	83.263	
(3)	12.242	30.315	30.490	9.823	84.229	
(4)	7.397	12.798	14.899	9.896	175.314	
(5)	12.195	13.546	28.101	9.827	157.884	MAXIMUM
(6)	12.847	13.196	24.661	10.239	99.254	
(7)	7.112	13.147	30.546	9.522	68.288	
(8)	15.702	6.286	19.896	9.567	61.985	

SUBSURFACE MOORING 94m./VACM *** 6516F ***

PERIOD (5 DAYS)	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	STATISTIC
(1)	-16.970	12.937	21.954	9.251	
(2)	-20.777	20.434	30.438	9.296	
(3)	-3.613	15.351	16.811	9.412	
(4)	-2.285	4.445	7.534	9.461	
(5)	-3.790	-4.116	10.444	9.307	MEAN
(6)	-6.472	-6.196	12.213	9.065	
(7)	-9.015	-5.117	12.503	9.138	
(8)	-1.740	-7.890	10.561	9.196	
(1)	35.372	19.263	28.002	.0200	
(2)	54.732	38.484	15.938	.0236	
(3)	31.407	25.400	22.916	.0101	
(4)	17.143	22.609	7.964	.0359	
(5)	57.980	47.825	28.028	.0545	VARIANCE
(6)	52.976	43.846	27.943	.00950	
(7)	46.077	39.304	36.500	.0126	
(8)	40.500	25.156	19.398	.00572	
(1)	5.947	4.389	5.292	.142	
(2)	7.398	6.204	3.992	.154	
(3)	5.604	5.040	4.787	.101	
(4)	4.140	4.755	2.822	.189	STANDARD
(5)	7.614	6.916	5.294	.233	DEVIATION
(6)	7.278	6.622	5.286	.0975	
(7)	6.788	6.269	6.041	.112	
(8)	6.364	5.016	4.404	.0756	
(1)	.135	.367	.417	-.427	
(2)	.830	-.418	-.481	.683	
(3)	-.051	.349	.297	.0216	
(4)	-.050	-.455	-.0878	-.580	
(5)	-.028	.204	.872	.141	SKEWNESS
(6)	.399	.283	.380	1.023	
(7)	-.397	.371	.537	.425	
(8)	.451	.319	.0285	.462	
(1)	2.920	2.930	2.906	2.994	
(2)	4.252	3.172	2.686	3.679	
(3)	2.367	2.482	2.669	2.925	
(4)	2.000	2.186	2.049	2.086	
(5)	2.354	2.648	3.554	1.673	KURTOSIS
(6)	2.805	2.653	2.344	5.213	
(7)	3.039	2.382	2.872	2.791	
(8)	2.588	2.488	1.907	3.322	
(1)	-32.886	1.670	10.143	8.862	
(2)	-36.634	1.388	18.342	8.860	
(3)	-17.991	4.230	6.693	9.153	
(4)	-12.246	-7.460	.350	9.057	
(5)	-23.168	-19.925	.120	8.815	MINIMUM
(6)	-22.927	-22.122	.877	8.866	
(7)	-27.281	-20.120	.262	8.881	
(8)	-14.727	-19.624	.651	8.983	
(1)	.952	24.900	35.958	9.627	
(2)	6.758	33.947	37.988	9.866	
(3)	10.440	28.657	29.779	9.771	
(4)	7.308	12.842	14.041	9.802	
(5)	12.459	13.025	28.267	9.788	MAXIMUM
(6)	12.523	11.753	25.361	9.726	
(7)	6.873	11.617	30.164	9.505	
(8)	16.620	7.452	20.587	9.487	

SUBSURFACE MOORING 97m./VACM *** 6517C ***

PERIOD	EAST	NORTH	SPEED	TEMPERATURE	STATISTIC
5 DAYS	CM/SEC	CM/SEC	CM/SEC	CELSIUS	
(1)	-16.473	13.682	21.988	9.218	MEAN
(2)	-19.095	21.588	30.130	9.246	
(3)	-3.451	15.479	16.886	9.376	
(4)	-2.395	4.363	7.366	9.437	
(5)	-3.687	-4.142	10.373	9.277	
(6)	-6.417	-6.366	12.250	9.038	
(7)	-9.031	-5.283	12.546	9.113	
(8)	-1.699	-7.853	10.565	9.170	
(1)	30.511	18.264	23.874	.0187	VARIANCE
(2)	56.574	35.294	14.696	.0203	
(3)	31.045	25.289	22.692	.00944	
(4)	16.253	21.210	7.975	.0303	
(5)	58.374	47.014	28.545	.0551	
(6)	51.812	44.225	27.685	.00811	
(7)	45.526	39.484	37.078	.0121	
(8)	42.280	23.893	19.109	.00559	
(1)	5.524	4.274	4.886	.137	STANDARD DEVIATION
(2)	7.522	5.941	3.834	.142	
(3)	5.572	5.029	4.764	.0971	
(4)	4.032	4.605	2.824	.174	
(5)	7.640	6.857	5.343	.235	
(6)	7.196	6.650	5.262	.0900	
(7)	6.747	6.284	6.089	.110	
(8)	6.502	4.888	4.371	.0748	
(1)	.233	.359	.380	-.441	SKEWNESS
(2)	.899	-.555	-.471	.750	
(3)	.191	.378	.312	-.0354	
(4)	-.020	-.420	-.104	-.539	
(5)	-.025	.196	.820	.160	
(6)	.389	.271	.385	.811	
(7)	-.412	.293	.451	.377	
(8)	.450	.385	.0285	.284	
(1)	2.801	2.793	2.958	2.926	KURTOSIS
(2)	4.594	3.282	2.642	4.087	
(3)	2.250	2.578	2.670	2.762	
(4)	2.019	2.277	2.024	2.111	
(5)	2.467	2.631	3.424	1.626	
(6)	2.831	2.622	2.343	4.378	
(7)	3.011	2.241	2.700	2.760	
(8)	2.771	2.683	1.913	2.986	
(1)	-30.671	2.501	10.357	8.841	MINIMUM
(2)	-35.503	2.244	19.476	8.858	
(3)	-17.194	4.599	7.100	9.118	
(4)	-11.667	-7.147	.227	9.012	
(5)	-24.555	-20.424	.404	8.775	
(6)	-23.436	-23.972	.331	8.847	
(7)	-27.686	-20.362	.669	8.861	
(8)	-16.034	-19.034	.490	8.957	
(1)	-.613	25.825	35.585	9.546	MAXIMUM
(2)	9.626	34.232	37.721	9.792	
(3)	10.639	29.635	30.433	9.738	
(4)	6.633	12.968	13.559	9.754	
(5)	12.549	13.506	28.256	9.759	
(6)	12.210	11.003	26.231	9.593	
(7)	6.787	8.845	30.820	9.469	
(8)	18.199	6.569	20.275	9.454	

SUBSURFACE MOORING 100m./DT *** 6518A ***

PERIOD	EAST	NORTH	SPEED	TEMPERATURE	TDIF.	STATISTIC
5 DAYS	CM/SEC	CM/SEC	CM/SEC	CELSIUS	MDEG/M	
(1)	-15.076	15.134	21.981	9.188	7.380	
(2)	-16.710	24.163	30.677	9.201	11.191	
(3)	-2.220	15.703	16.927	9.347	8.031	
(4)	-2.376	4.420	7.314	9.419	5.226	
(5)	-3.877	-3.837	10.302	9.254	5.963	MEAN
(6)	-6.708	-6.199	12.308	9.020	4.737	
(7)	-9.204	-4.831	12.472	9.090	5.968	
(8)	-1.767	-7.624	10.411	9.152	4.872	
(1)	29.770	21.417	24.349	.0185	292.673	
(2)	62.828	30.946	15.773	.0170	135.090	
(3)	33.718	23.156	21.882	.00964	140.071	
(4)	15.721	20.912	8.314	.0270	334.998	
(5)	60.410	44.197	28.234	.0550	128.044	VARIANCE
(6)	53.718	42.063	27.709	.00738	95.962	
(7)	45.039	37.585	35.137	.0127	89.664	
(8)	43.254	21.594	17.695	.00629	92.080	
(1)	5.456	4.628	4.934	.136	17.108	
(2)	7.926	5.563	3.971	.130	11.623	
(3)	5.807	4.812	4.678	.0982	11.835	
(4)	3.965	4.573	2.883	.164	18.303	STANDARD
(5)	7.772	6.648	5.314	.234	11.316	DEVIATION
(6)	7.329	6.486	5.264	.0859	9.796	
(7)	6.711	6.131	5.928	.113	9.469	
(8)	6.577	4.647	4.207	.0793	9.596	
(1)	.402	.443	.356	-.351	.035	
(2)	.785	-.450	-.479	.773	.949	
(3)	.335	.361	.290	-.0691	.948	
(4)	-.053	-.458	-.0933	-.608	-1.020	
(5)	-.007	.189	.754	.189	.967	SKEWNESS
(6)	.439	.251	.399	.744	.383	
(7)	-.324	.286	.426	.356	.991	
(8)	.449	.449	-.0197	.250	.878	
(1)	2.682	2.594	2.823	2.776	9.544	
(2)	4.372	3.080	2.512	4.495	5.344	
(3)	2.179	2.680	2.635	2.533	10.056	
(4)	2.152	2.317	1.943	2.368	15.246	
(5)	2.441	2.625	3.208	1.572	8.731	KURTOSIS
(6)	2.764	2.583	2.401	4.417	6.141	
(7)	2.924	2.193	2.627	2.788	8.359	
(8)	2.777	2.787	1.881	2.632	14.763	
(1)	-28.586	4.100	10.594	8.834	-108.345	
(2)	-33.898	6.900	19.605	8.857	-48.662	
(3)	-15.965	5.321	7.223	9.100	-64.955	
(4)	-12.542	-7.578	.224	8.990	-123.117	
(5)	-24.114	-19.138	.335	8.756	-44.877	MINIMUM
(6)	-22.382	-23.543	1.445	8.820	-44.730	
(7)	-27.394	-20.244	.348	8.832	-59.221	
(8)	-15.115	-17.321	.743	8.953	-59.886	
(1)	1.265	28.596	34.944	9.548	104.979	
(2)	12.507	36.748	38.097	9.721	72.552	
(3)	12.408	29.371	29.909	9.649	109.627	
(4)	6.436	12.875	13.795	9.720	105.007	
(5)	12.954	13.045	27.586	9.727	80.721	MAXIMUM
(6)	12.000	10.496	27.018	9.570	66.385	
(7)	6.979	8.655	30.258	9.460	70.075	
(8)	18.095	6.217	19.059	9.407	86.245	

SUBSURFACE MOORING 103m./DT *** 6519A ***

PERIOD	EAST	NORTH	SPEED	TEMPERATURE	TDIF.	STATISTIC
5 DAYS	CM/SEC	CM/SEC	CM/SEC	CELSIUS	MDEG/M	
(1)	-16.324	13.768	21.916	9.160	6.931	
(2)	-19.585	21.545	30.452	9.161	10.810	
(3)	-3.250	15.448	16.730	9.316	8.163	
(4)	-2.487	4.099	7.164	9.397	5.718	
(5)	-3.865	-3.872	10.246	9.225	8.311	MEAN
(6)	-6.719	-6.286	12.316	8.998	5.594	
(7)	-9.175	-4.905	12.420	9.064	6.968	
(8)	-1.674	-7.588	10.424	9.132	8.271	
(1)	30.609	16.875	23.220	.0176	269.740	
(2)	60.259	35.029	15.752	.0138	115.949	
(3)	28.812	22.536	20.665	.00989	114.597	
(4)	16.298	20.338	8.299	.0249	220.410	
(5)	60.377	43.445	28.785	.0553	154.529	VARIANCE
(6)	53.314	41.241	27.531	.00687	84.508	
(7)	43.860	36.259	34.109	.0132	91.188	
(8)	45.352	21.219	18.300	.00654	87.697	
(1)	5.533	4.108	4.819	.133	16.424	
(2)	7.763	5.919	3.969	.118	10.768	
(3)	5.368	4.747	4.546	.0994	10.705	
(4)	4.037	4.510	2.881	.158	14.846	STANDARD
(5)	7.770	6.591	5.365	.235	12.431	DEVIATION
(6)	7.302	6.422	5.247	.0829	9.193	
(7)	6.623	6.022	5.840	.115	9.549	
(8)	6.734	4.606	4.278	.0809	9.365	
(1)	.234	.339	.340	-.317	.760	
(2)	1.238	-.598	-.373	.853	1.013	
(3)	.245	.337	.237	-.141	1.252	
(4)	-.082	-.425	-.0271	-.661	-1.304	
(5)	-.055	.173	.789	.223	1.038	SKEWNESS
(6)	.428	.252	.426	.567	.189	
(7)	-.277	.306	.417	.271	1.355	
(8)	.415	.445	.00960	.243	.349	
(1)	2.789	2.806	2.780	2.808	9.752	
(2)	5.778	3.122	2.417	5.026	5.616	
(3)	2.235	2.519	2.537	2.608	9.443	
(4)	2.180	2.318	2.001	2.500	16.845	
(5)	2.413	2.590	3.250	1.529	7.770	KURTOSIS
(6)	2.818	2.588	2.465	3.837	6.693	
(7)	2.878	2.224	2.655	2.772	9.726	
(8)	2.855	2.858	1.865	2.500	11.696	
(1)	-30.964	3.208	10.798	8.813	-81.338	
(2)	-35.173	3.655	20.034	8.846	-35.304	
(3)	-16.754	4.704	6.523	9.006	-48.302	
(4)	-13.112	-7.719	.0989	8.983	-98.507	
(5)	-24.382	-19.011	.105	8.750	-58.520	MINIMUM
(6)	-22.873	-23.158	1.255	8.770	-54.290	
(7)	-26.676	-20.050	.315	8.774	-44.672	
(8)	-15.898	-17.197	.660	8.947	-63.463	
(1)	.429	24.854	34.592	9.485	123.600	
(2)	13.081	34.893	38.609	9.650	74.742	
(3)	9.813	28.312	28.880	9.630	102.233	
(4)	6.110	12.856	13.819	9.705	121.416	
(5)	12.646	13.008	27.939	9.701	74.978	MAXIMUM
(6)	12.201	10.511	26.646	9.522	58.833	
(7)	6.643	9.008	29.252	9.373	75.511	
(8)	19.121	7.195	19.264	9.354	81.138	

SUBSURFACE MOORING 106m./VACM*** 651;10C ***

PERIOD	EAST	NORTH	SPEED	TEMPERATURE	STATISTIC
5 DAYS	CM/SEC	CM/SEC	CM/SEC	CELSIUS	
(1)	-16.426	13.026	21.590	9.137	
(2)	-19.866	20.306	29.776	9.127	
(3)	-4.102	15.278	16.753	9.289	
(4)	-2.755	3.867	7.086	9.374	
(5)	-3.483	-4.105	10.264	9.198	MEAN
(6)	-6.068	-6.693	12.128	8.977	
(7)	-8.666	-5.412	12.231	9.039	
(8)	-.887	-7.547	10.212	9.112	
(1)	31.818	14.919	20.090	.0159	
(2)	54.175	38.312	12.844	.0111	
(3)	28.655	23.042	21.290	.00978	
(4)	16.406	18.888	7.624	.0233	
(5)	55.998	48.096	27.722	.0547	VARIANCE
(6)	48.835	43.449	26.807	.00624	
(7)	40.346	36.529	31.657	.0132	
(8)	40.867	22.643	16.974	.00677	
(1)	5.641	3.863	4.482	.126	
(2)	7.360	6.190	3.584	.106	
(3)	5.353	4.800	4.614	.0989	
(4)	4.050	4.346	2.761	.153	STANDARD
(5)	7.483	6.935	5.265	.234	DEVIATION
(6)	6.988	6.592	5.178	.0790	
(7)	6.352	6.044	5.626	.115	
(8)	6.393	4.758	4.120	.0823	
(1)	.342	.493	.293	-.291	
(2)	1.409	-.694	-.238	.893	
(3)	.172	.360	.226	-.182	
(4)	-.031	-.418	.0523	-.657	
(5)	-.009	.147	.767	.259	SKEWNESS
(6)	.370	.226	.465	.314	
(7)	-.262	.326	.435	.249	
(8)	.389	.479	-.00418	.258	
(1)	2.823	2.860	2.760	2.737	
(2)	6.415	2.977	2.486	5.636	
(3)	2.284	2.570	2.585	2.745	
(4)	2.241	2.402	2.092	2.497	
(5)	2.429	2.453	3.274	1.506	KURTOSIS
(6)	2.897	2.525	2.515	3.007	
(7)	2.929	2.189	2.727	2.868	
(8)	2.896	2.731	1.902	2.326	
(1)	-30.209	3.419	11.351	8.823	
(2)	-34.473	1.899	19.777	8.842	
(3)	-18.075	4.523	5.940	8.996	
(4)	-13.265	-8.088	.281	8.980	
(5)	-22.982	-19.372	.594	8.750	MINIMUM
(6)	-22.190	-23.881	.890	8.748	
(7)	-25.592	-18.045	.213	8.743	
(8)	-14.574	-16.878	1.380	8.942	
(1)	.769	24.299	33.646	9.446	
(2)	12.953	32.606	38.098	9.594	
(3)	8.237	28.217	28.920	9.603	
(4)	6.353	12.302	14.061	9.639	
(5)	12.637	13.463	27.337	9.648	MAXIMUM
(6)	12.065	10.036	26.870	9.309	
(7)	6.504	9.177	28.460	9.338	
(8)	18.708	7.292	18.735	9.306	

SUBSURFACE MOORING 112m./DT ••• 651,12A •••

PERIOD	EAST	NORTH	SPEED	TEMPERATURE	TDIF.	STATISTIC
5 DAYS	CM/SEC	CM/SEC	CM/SEC	CELSIUS	MDEG/M	
(1)	-16.100	13.611	21.750	9.112	3.135	
(2)	-19.337	22.701	31.331	9.076	6.883	
(3)	-3.017	15.447	16.753	9.263	3.810	
(4)	-2.632	3.804	6.978	9.345	4.455	
(5)	-3.484	-4.144	10.211	9.175	3.806	MEAN
(6)	-6.114	-6.458	11.744	8.952	3.380	
(7)	-8.625	-5.098	11.871	9.014	2.606	
(8)	-.938	-7.429	10.003	9.094	2.448	
(1)	34.907	18.255	24.548	.0144	263.490	
(2)	64.834	41.726	14.191	.00800	71.135	
(3)	32.034	23.992	23.048	.0101	67.390	
(4)	18.145	17.059	7.905	.0234	129.928	
(5)	56.485	45.802	27.327	.0508	100.428	VARIANCE
(6)	46.086	38.895	26.143	.00674	76.367	
(7)	35.662	33.506	28.640	.0133	92.860	
(8)	40.590	19.941	16.543	.00841	71.631	
(1)	5.908	4.273	4.955	.120	16.232	
(2)	8.052	6.460	3.767	.0894	8.434	
(3)	5.660	4.898	4.801	.101	8.209	
(4)	4.260	4.130	2.812	.153	11.399	STANDARD
(5)	7.516	6.768	5.228	.225	10.021	DEVIATION
(6)	6.789	6.237	5.113	.0821	8.739	
(7)	5.972	5.788	5.352	.115	9.636	
(8)	6.371	4.466	4.067	.0917	8.463	
(1)	.266	.683	.407	-.0231	.226	
(2)	1.248	-.693	-.376	.865	1.123	
(3)	.247	.309	.193	-.147	1.389	
(4)	-.137	-.538	.0716	-.489	.888	
(5)	.006	.120	.725	.264	.829	SKEWNESS
(6)	.429	.198	.462	.104	.721	
(7)	-.239	.377	.457	.281	.826	
(8)	.465	.371	.0216	.131	.212	
(1)	2.922	2.991	2.821	2.534	11.176	
(2)	6.029	2.853	2.463	5.833	5.537	
(3)	2.364	2.697	2.541	2.677	9.663	
(4)	2.354	2.747	2.212	2.190	10.718	
(5)	2.289	2.467	3.223	1.560	10.342	KURTOSIS
(6)	2.813	2.526	2.465	2.890	6.371	
(7)	2.946	2.352	2.723	3.080	10.271	
(8)	2.944	2.499	2.003	2.330	22.303	
(1)	-32.078	4.312	10.521	8.771	-104.813	
(2)	-35.225	1.578	21.464	8.845	-22.604	
(3)	-16.299	3.659	5.696	8.981	-31.092	
(4)	-13.371	-8.498	.222	8.967	-59.059	
(5)	-22.601	-19.360	.252	8.763	-50.302	MINIMUM
(6)	-22.105	-23.781	.341	8.702	-38.054	
(7)	-25.456	-17.780	.507	8.748	-51.788	
(8)	-14.928	-16.461	.388	8.825	-70.818	
(1)	3.061	27.561	34.720	9.408	122.079	
(2)	17.516	35.621	38.916	9.571	50.294	
(3)	10.949	28.386	29.534	9.528	65.708	
(4)	8.037	12.744	13.871	9.609	79.213	
(5)	12.473	13.181	26.931	9.626	82.423	MAXIMUM
(6)	11.627	9.696	26.067	9.187	56.930	
(7)	5.812	9.221	27.567	9.331	64.861	
(8)	18.124	6.105	19.406	9.308	101.390	

SUBSURFACE MOORING 115m./VACM*** 651,13B ***

PERIOD	EAST	NORTH	SPEED	TEMPERATURE	STATISTIC
5 DAYS	CM/SEC	CM/SEC	CM/SEC	CELSIUS	
(1)	-13.826	15.850	21.736	9.099	
(2)	-14.852	25.381	30.844	9.053	
(3)	-1.213	15.302	16.487	9.248	
(4)	-2.449	4.118	7.208	9.328	
(5)	-4.083	-3.651	10.487	9.163	MEAN
(6)	-6.807	-5.837	11.899	8.940	
(7)	-9.112	-4.268	11.975	9.005	
(8)	-1.744	-7.434	10.211	9.083	
(1)	35.179	19.737	24.852	.0128	
(2)	71.049	30.355	14.829	.00691	
(3)	36.184	20.975	20.957	.0100	
(4)	19.036	18.046	8.086	.0228	
(5)	63.721	43.375	27.121	.0488	VARIANCE
(6)	51.908	35.305	26.048	.00650	
(7)	37.669	32.729	28.255	.0128	
(8)	46.042	16.636	16.716	.00839	
(1)	5.931	4.443	4.985	.113	
(2)	8.429	5.510	3.851	.0832	
(3)	6.015	4.580	4.578	.100	
(4)	4.363	4.248	2.844	.151	STANDARD
(5)	7.983	6.586	5.208	.221	DEVIATION
(6)	7.205	5.942	5.104	.0806	
(7)	6.138	5.721	5.316	.113	
(8)	6.785	4.079	4.089	.0916	
(1)	.453	.540	.378	-.0202	
(2)	.991	-.620	-.434	.814	
(3)	.451	.360	.196	-.195	
(4)	-.131	-.619	-.0284	-.375	
(5)	-.027	.190	.706	.263	SKEWNESS
(6)	.466	.237	.456	.0331	
(7)	-.273	.450	.476	.241	
(8)	.369	.329	-.0151	.0646	
(1)	2.822	2.696	2.742	2.650	
(2)	5.429	2.951	2.527	5.364	
(3)	2.262	2.869	2.515	2.640	
(4)	2.329	2.802	2.269	2.070	
(5)	2.239	2.427	3.154	1.573	KURTOSIS
(6)	2.766	2.430	2.444	2.839	
(7)	2.958	2.443	2.685	3.009	
(8)	2.732	2.409	2.010	2.325	
(1)	-27.943	7.019	10.479	8.778	
(2)	-31.528	7.543	13.391	8.845	
(3)	-13.469	3.374	5.686	8.966	
(4)	-12.742	-8.130	.219	8.967	
(5)	-23.413	-18.526	.230	8.770	MINIMUM
(6)	-22.841	-21.761	.422	8.693	
(7)	-26.447	-17.187	.0944	8.738	
(8)	-16.791	-15.603	1.065	8.833	
(1)	4.025	28.782	34.689	9.387	
(2)	19.865	36.025	38.687	9.504	
(3)	14.111	28.013	28.164	9.505	
(4)	7.462	12.685	13.941	9.590	
(5)	12.665	13.148	26.770	9.565	MAXIMUM
(6)	12.138	9.189	25.756	9.173	
(7)	5.640	9.658	27.718	9.310	
(8)	18.201	4.748	20.552	9.306	

SUBSURFACE MOORING 118m./VACM 681;148

PERIOD 5 DAYS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	STATISTIC
(1)	-13.730	15.673	21.818	9.079	
(2)	-14.977	25.273	30.800	9.026	
(3)	-1.166	15.218	16.373	9.228	
(4)	-2.158	4.094	7.177	9.306	
(5)	-4.107	-3.490	10.360	9.143	MEAN
(6)	-6.952	-5.514	11.679	8.922	
(7)	-9.108	-4.006	11.866	8.990	
(8)	-2.085	-7.283	10.073	9.043	
(1)	33.471	20.191	24.782	.0117	
(2)	70.586	29.238	14.221	.00607	
(3)	35.332	21.264	21.453	.0103	
(4)	20.788	17.645	8.350	.0219	
(5)	66.472	39.074	27.272	.0468	VARIANCE
(6)	50.937	32.555	25.838	.00659	
(7)	36.917	31.916	27.039	.0130	
(8)	45.908	14.274	16.104	.00904	
(1)	5.785	4.493	4.978	.108	
(2)	8.402	5.407	3.771	.0779	
(3)	5.944	4.611	4.632	.102	
(4)	4.559	4.201	2.890	.148	STANDARD
(5)	8.153	6.251	5.222	.216	DEVIATION
(6)	7.137	5.706	5.083	.0812	
(7)	6.076	5.649	5.200	.114	
(8)	6.776	3.778	4.013	.0951	
(1)	.478	.612	.402	-.00371	
(2)	1.089	-.558	-.367	.762	
(3)	.410	.345	.184	-.249	
(4)	-.247	-.641	.0553	-.304	
(5)	-.047	.146	.696	.265	SKEWNESS
(6)	.427	.200	.484	.0116	
(7)	-.261	.464	.468	.171	
(8)	.361	.232	.0101	-.0206	
(1)	2.813	2.762	2.790	2.789	
(2)	5.635	2.797	2.271	4.736	
(3)	2.281	2.755	2.416	2.557	
(4)	2.329	2.712	2.374	2.045	
(5)	2.195	2.454	3.216	1.605	KURTOSIS
(6)	2.699	2.314	2.476	2.933	
(7)	2.978	2.400	2.713	2.865	
(8)	2.692	2.473	2.050	2.287	
(1)	-27.411	7.376	11.065	8.691	
(2)	-31.197	8.803	21.183	8.846	
(3)	-14.287	2.690	6.406	8.952	
(4)	-13.520	-7.033	.222	8.959	
(5)	-23.640	-17.701	.105	8.753	MINIMUM
(6)	-22.747	-20.085	.831	8.679	
(7)	-27.450	-17.249	.344	8.717	
(8)	-16.811	-15.090	.397	8.820	
(1)	2.910	28.898	34.520	9.339	
(2)	19.305	35.652	38.754	9.410	
(3)	13.524	27.525	27.663	9.482	
(4)	8.091	12.475	14.816	9.564	
(5)	12.821	12.532	26.150	9.537	MAXIMUM
(6)	11.153	7.646	25.590	9.146	
(7)	5.666	9.618	28.054	9.302	
(8)	17.442	4.585	20.123	9.288	

SUBSURFACE MOORING 121m./DT ••• 681,158 •••

PERIOD	EAST	NORTH	SPEED	TEMPERATURE	TDIF.	STATISTIC
5 DAYS	CM/SEC	CM/SEC	CM/SEC	CELSIUS	MDEG/M	
(1)	-16.914	12.247	21.524	9.066	3.532	
(2)	-20.898	21.039	31.135	9.006	5.255	
(3)	-3.986	14.908	16.407	9.219	3.068	
(4)	-2.741	3.888	7.199	9.293	4.551	
(5)	-3.160	-4.332	10.382	9.137	1.668	MEAN
(6)	-5.446	-6.891	11.527	8.915	2.645	
(7)	-7.915	-5.903	11.881	8.989	1.007	
(8)	-.484	-7.663	10.067	9.055	2.395	
(1)	35.907	17.507	26.192	.0119	261.050	
(2)	63.259	41.327	14.556	.00549	59.249	
(3)	29.507	24.159	22.599	.0107	52.610	
(4)	22.166	15.742	8.714	.0217	112.820	
(5)	53.793	51.797	26.559	.0453	88.875	VARIANCE
(6)	41.029	39.850	25.153	.00729	79.751	
(7)	33.650	36.345	26.324	.0138	105.472	
(8)	38.224	20.458	16.300	.0100	66.984	
(1)	5.992	4.184	5.118	.109	16.157	
(2)	7.954	6.429	3.815	.0741	7.697	
(3)	5.432	4.915	4.754	.103	7.253	
(4)	4.708	3.968	2.952	.147	10.622	STANDARD
(5)	7.334	7.197	5.154	.213	9.427	DEVIATION
(6)	6.405	6.313	5.015	.0854	8.930	
(7)	5.801	6.029	5.131	.118	10.270	
(8)	6.183	4.523	4.037	.100	8.184	
(1)	.201	.819	.439	-.0576	1.129	
(2)	1.505	-.654	-.398	.765	.448	
(3)	.198	.341	.183	-.317	.505	
(4)	-.273	-.476	.155	-.279	-.144	
(5)	.025	.119	.670	.220	-.573	SKEWNESS
(6)	.317	.167	.475	.0566	1.055	
(7)	-.255	.462	.407	.0455	.067	
(8)	.370	.235	-.0134	-.152	.275	
(1)	2.975	3.190	2.867	3.077	18.466	
(2)	6.775	2.521	2.225	4.452	8.248	
(3)	2.332	2.495	2.386	2.495	8.463	
(4)	2.329	2.692	2.488	2.023	8.271	
(5)	2.277	2.314	3.246	1.613	10.010	KURTOSIS
(6)	2.755	2.461	2.492	3.022	10.311	
(7)	3.007	2.221	2.667	2.687	8.619	
(8)	2.798	2.179	2.071	2.237	19.030	
(1)	-32.375	3.998	10.870	8.654	-105.376	
(2)	-35.408	3.896	21.563	8.845	-45.173	
(3)	-17.249	2.157	6.030	8.943	-41.408	
(4)	-14.304	-6.160	.260	8.960	-53.583	
(5)	-21.656	-20.323	.455	8.719	-59.261	MINIMUM
(6)	-21.322	-22.811	.377	8.666	-54.257	
(7)	-25.231	-18.777	.100	8.712	-53.463	
(8)	-14.163	-17.433	.440	8.787	-56.158	
(1)	.334	25.126	34.921	9.318	154.333	
(2)	12.816	32.645	38.530	9.371	59.144	
(3)	9.765	27.185	28.324	9.485	51.916	
(4)	6.434	11.887	15.163	9.563	62.459	
(5)	12.440	12.774	26.375	9.532	55.063	MAXIMUM
(6)	10.195	8.477	25.685	9.143	74.584	
(7)	6.725	8.942	27.547	9.294	63.150	
(8)	17.101	4.305	20.617	9.303	92.265	

PERIOD	SUBSURFACE MOORING 124m./DT *** 651.16A ***					
5 DAYS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	TDIF. MDEG/M	STATISTIC
(1)	-15.313	14.421	21.669	9.058	3.329	
(2)	-17.765	24.159	31.381	8.988	5.922	
(3)	-2.459	14.983	16.209	9.209	3.478	
(4)	-2.426	4.157	7.190	9.273	6.441	
(5)	-3.882	-3.739	10.483	9.131	2.587	MEAN
(6)	-6.426	-5.913	11.481	8.902	4.590	
(7)	-8.707	-4.810	11.959	8.984	1.799	
(8)	-1.520	-7.428	10.072	9.047	2.789	
(1)	34.743	18.965	26.593	.0121	207.146	
(2)	66.096	34.565	15.151	.00512	58.610	
(3)	32.106	23.991	23.904	.0110	44.911	
(4)	21.821	15.464	8.755	.0224	122.137	
(5)	64.945	42.960	27.054	.0442	86.493	VARIANCE
(6)	46.355	33.884	24.688	.00773	131.171	
(7)	37.494	33.698	27.134	.0145	104.584	
(8)	44.061	16.736	16.829	.0104	50.887	
(1)	5.894	4.355	5.157	.110	14.393	
(2)	8.130	5.879	3.892	.0716	7.656	
(3)	5.666	4.898	4.889	.105	6.702	
(4)	4.671	3.932	2.959	.150	11.052	STANDARD
(5)	8.059	6.554	5.201	.210	9.300	DEVIATION
(6)	6.808	5.821	4.969	.0879	11.453	
(7)	6.123	5.805	5.209	.121	10.227	
(8)	6.638	4.091	4.102	.102	7.134	
(1)	.337	.793	.466	-.177	-.135	
(2)	1.225	-.542	-.432	.664	1.612	
(3)	.335	.391	.237	-.359	1.051	
(4)	-.374	-.581	.302	-.187	.302	
(5)	-.062	.125	.745	.155	-.218	SKEWNESS
(6)	.341	.171	.465	.0912	1.590	
(7)	-.247	.432	.414	.0104	.136	
(8)	.317	.144	.0395	-.239	-1.205	
(1)	2.899	3.104	2.876	3.306	9.991	
(2)	5.845	2.569	2.270	3.944	10.973	
(3)	2.352	2.641	2.439	2.427	13.544	
(4)	2.394	2.835	2.577	1.863	7.991	
(5)	2.273	2.299	3.452	1.615	8.600	KURTOSIS
(6)	2.655	2.305	2.432	3.103	11.102	
(7)	2.990	2.177	2.593	2.546	14.928	
(8)	2.684	2.345	2.116	2.246	13.276	
(1)	-29.959	6.548	11.195	8.642	-92.585	
(2)	-32.973	7.801	21.378	8.818	-26.932	
(3)	-14.790	2.901	6.158	8.934	-31.647	
(4)	-14.821	-5.969	.164	8.984	-55.096	
(5)	-24.622	-18.409	.0832	8.705	-53.805	MINIMUM
(6)	-22.440	-19.222	.641	8.611	-61.311	
(7)	-26.534	-16.984	.638	8.713	-69.112	
(8)	-15.712	-18.143	.836	8.783	-49.816	
(1)	2.167	27.685	35.615	9.318	90.761	
(2)	15.348	35.361	39.346	9.319	66.027	
(3)	12.077	24.050	28.346	9.439	69.114	
(4)	7.213	11.933	15.937	9.537	70.558	
(5)	12.172	11.484	27.691	9.518	53.842	MAXIMUM
(6)	10.315	7.673	24.511	9.145	96.959	
(7)	6.940	8.137	27.743	9.283	82.518	
(8)	17.247	4.038	20.803	9.304	46.545	

SUBSURFACE MOORING 185m./DT *** 651,17 ***

PERIOD	EAST	NORTH	SPEED	TEMPERATURE	TDIF	STATISTIC
5 DAYS	CM/SEC	CM/SEC	CM/SEC	CELSIUS	MDEG/M	
(1)	-14.372	13.205	20.125	8.952	-1.056	
(2)	-16.855	21.919	28.944	8.818	-.013	
(3)	-2.045	14.506	15.607	9.032	-.012	
(4)	-4.268	4.399	7.860	9.083	-1.601	
(5)	-4.327	-3.834	10.461	8.957	.604	MEAN
(6)	-6.229	-5.525	11.304	8.811	-.348	
(7)	-8.667	-4.522	11.817	8.916	-1.010	
(8)	-1.279	-8.123	10.584	8.903	-.734	
(1)	32.432	15.401	23.707	.00783	47.447	
(2)	56.174	26.691	9.600	.0116	23.751	
(3)	27.762	20.501	19.291	.00724	50.305	
(4)	18.493	12.002	6.275	.0176	68.198	
(5)	56.453	40.271	20.703	.0325	45.268	VARIANCE
(6)	42.517	41.072	25.136	.0164	57.876	
(7)	37.369	35.846	29.133	.00940	38.724	
(8)	42.495	18.884	16.981	.00912	31.087	
(1)	5.695	3.924	4.869	.0885	6.888	
(2)	7.495	5.166	3.098	.108	4.873	
(3)	5.269	4.528	4.392	.0851	7.093	
(4)	4.300	3.464	2.505	.133	8.258	STANDARD
(5)	7.514	6.346	4.550	.180	6.728	DEVIATION
(6)	6.521	6.409	5.014	.128	7.608	
(7)	6.113	5.987	5.397	.0969	6.223	
(8)	6.519	4.346	4.121	.0955	5.576	
(1)	.038	.625	.327	-.318	-.862	
(2)	1.311	-.368	-.104	-.000441E-	-.509	
(3)	.120	.311	.243	.00574	.423	
(4)	.043	-.078	.0611	-.0938	-1.545	
(5)	.038	.199	.753	.262	.675	SKEWNESS
(6)	.153	.088	.511	.4[illegible]1	.455	
(7)	.191	-.066	.0922	-.679	-.545	
(8)	.149	.247	.200	-.347	-.742	
(1)	2.197	2.818	2.941	3.006	14.259	
(2)	5.553	2.298	2.562	2.142	15.821	
(3)	2.544	2.283	2.129	2.714	15.636	
(4)	2.261	2.744	2.368	2.109	14.176	
(5)	1.871	2.277	2.882	2.185	10.164	KURTOSIS
(6)	2.227	2.496	2.445	2.282	13.716	
(7)	2.284	2.038	1.782	3.255	18.245	
(8)	2.263	2.304	2.219	1.911	12.615	
(1)	-27.454	5.992	9.528	8.629	61.357	
(2)	-29.706	9.701	20.145	8.598	37.556	
(3)	-15.016	5.240	7.395	8.761	50.856	
(4)	-14.410	-4.452	.298	8.737	66.480	
(5)	-21.319	-17.110	1.010	8.358	37.692	MINIMUM
(6)	-21.593	-19.349	1.080	8.535	57.565	
(7)	-21.713	-19.007	.164	8.584	63.428	
(8)	-14.196	-16.220	1.436	8.537	36.376	
(1)	-1.554	25.153	32.299	9.122	48.606	
(2)	11.677	32.965	37.018	9.064	46.980	
(3)	11.322	25.629	25.784	9.221	62.362	
(4)	6.192	12.646	14.931	9.302	55.600	
(5)	10.002	9.859	23.590	9.303	52.739	MAXIMUM
(6)	8.567	9.841	24.836	9.110	57.643	
(7)	6.012	8.570	23.180	9.145	55.116	
(8)	14.381	4.499	20.018	9.083	41.146	

SUBSURFACE MOORING 200m./DT *** 651.18A ***

PERIOD 5 DAYS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	TDIF. MDEG/M	STATISTIC
(1)	-14.093	13.147	19.817	8.935	-3.486	
(2)	-17.093	21.225	28.468	8.796	-4.343	
(3)	-2.377	14.215	15.303	9.010	-4.183	
(4)	-4.154	4.488	7.701	9.066	-3.370	
(5)	-4.156	-3.661	10.163	8.931	-4.697	MEAN
(6)	-6.217	-5.296	11.056	8.788	-4.271	
(7)	-8.650	-4.192	11.589	8.898	-3.496	
(8)	-1.326	-8.023	10.412	8.885	-3.480	
(1)	33.033	12.764	24.537	.00742	36.086	
(2)	50.893	25.712	8.831	.0124	18.178	
(3)	25.442	20.602	19.594	.00651	39.879	
(4)	17.257	10.630	5.972	.0172	68.090	
(5)	52.967	38.678	19.035	.0326	53.241	VARIANCE
(6)	39.957	39.466	23.877	.0154	65.694	
(7)	35.223	33.884	27.215	.00923	31.845	
(8)	40.144	17.935	15.802	.00902	22.048	
(1)	5.747	3.573	4.953	.0861	6.002	
(2)	7.134	5.071	2.972	.111	4.263	
(3)	5.044	4.539	4.427	.0807	6.315	
(4)	4.154	3.260	2.444	.131	8.252	STANDARD
(5)	7.278	6.219	4.363	.180	7.297	DEVIATION
(6)	6.321	6.282	4.886	.124	8.105	
(7)	5.935	5.821	5.217	.0961	5.890	
(8)	6.336	4.235	3.975	.0950	4.696	
(1)	-.041	.713	.419	-.396	.184	
(2)	1.361	-.313	-.00311	.0254	1.374	
(3)	.130	.412	.337	-.0708	-.498	
(4)	.011	-.055	-.0391	-.226	1.378	
(5)	.068	.162	.767	.225	-.636	SKEWNESS
(6)	.148	.105	.544	.335	-1.243	
(7)	.166	-.073	.135	-.832	-1.426	
(8)	.134	.283	.249	-.508	.173	
(1)	2.278	2.961	2.942	3.017	11.465	
(2)	5.663	2.304	2.682	2.053	21.164	
(3)	2.679	2.399	2.272	3.047	12.141	
(4)	2.232	2.659	2.261	2.272	17.034	
(5)	1.841	2.296	2.952	2.334	10.373	KURTOSIS
(6)	2.246	2.541	2.617	2.268	11.254	
(7)	2.313	2.083	1.848	3.701	20.107	
(8)	2.186	2.390	2.312	2.039	12.167	
(1)	-29.114	6.581	8.594	8.645	-50.717	
(2)	-29.538	9.426	19.948	8.574	-30.867	
(3)	-15.637	5.339	7.413	8.709	-60.996	
(4)	-13.740	-4.064	1.074	8.763	-51.606	
(5)	-19.592	-16.558	.415	8.332	-53.499	MINIMUM
(6)	-20.928	-19.706	1.492	8.514	-60.269	
(7)	-21.376	-15.007	.846	8.526	-71.762	
(8)	-13.791	-15.957	1.464	8.677	-50.070	
(1)	-.917	24.246	32.942	9.101	42.946	
(2)	9.478	32.301	36.750	9.047	54.225	
(3)	10.018	25.274	25.578	9.191	37.872	
(4)	5.382	11.774	13.970	9.273	56.972	
(5)	10.508	9.830	23.285	9.279	33.328	MAXIMUM
(6)	8.170	9.726	25.185	9.087	32.287	
(7)	5.012	8.756	22.614	9.115	27.272	
(8)	12.994	4.076	20.460	9.055	26.123	

SUBSURFACE MOORING 210m./VACM *** 651,19A ***

PERIOD	EAST	NORTH	SPEED	TEMPERATURE	STATISTIC
5 DAYS	CM/SEC	CM/SEC	CM/SEC	CELSIUS	
(1)	-14.720	12.303	19.750	8.922	
(2)	-17.333	20.881	28.338	8.777	
(3)	-2.646	14.304	15.506	8.990	
(4)	-4.621	4.101	7.632	9.055	
(5)	-3.951	-4.008	10.239	8.908	MEAN
(6)	-5.782	-5.803	11.027	8.773	
(7)	-8.317	-4.776	11.595	8.889	
(8)	-1.002	-8.213	10.430	8.876	
(1)	30.341	14.994	23.333	.00699	
(2)	49.323	25.813	8.504	.0133	
(3)	27.379	22.198	20.757	.00527	
(4)	14.848	11.251	6.028	.0161	
(5)	51.474	41.529	19.852	.0331	VARIANCE
(6)	39.304	40.779	25.583	.0134	
(7)	33.732	36.839	28.114	.00930	
(8)	35.820	21.673	17.162	.00898	
(1)	5.508	3.872	4.830	.0836	
(2)	7.023	5.081	2.916	.115	
(3)	5.232	4.711	4.556	.0726	
(4)	3.853	3.354	2.455	.127	STANDARD
(5)	7.175	6.444	4.456	.182	DEVIATION
(6)	6.269	6.386	5.058	.116	
(7)	5.808	6.070	5.302	.0964	
(8)	5.985	4.655	4.143	.0947	
(1)	-.073	.607	.366	-.382	
(2)	1.341	-.354	-.0348	.132	
(3)	.004	.408	.310	-.414	
(4)	-.014	.098	-.0652	-.342	
(5)	.085	.128	.736	.122	SKEWNESS
(6)	.072	.017	.553	.286	
(7)	.179	-.110	.154	-.886	
(8)	.119	.128	.298	-.618	
(1)	2.226	2.752	2.911	2.879	
(2)	5.502	2.257	2.429	1.996	
(3)	2.725	2.243	2.139	4.190	
(4)	2.348	2.305	2.123	2.398	
(5)	1.786	2.290	2.955	2.427	KURTOSIS
(6)	2.160	2.670	2.635	2.428	
(7)	2.368	2.090	1.887	3.383	
(8)	2.103	2.191	2.440	2.172	
(1)	-28.118	4.981	8.527	8.583	
(2)	-29.378	8.692	20.331	8.564	
(3)	-16.762	5.252	6.983	8.683	
(4)	-13.433	-3.342	.574	8.749	
(5)	-18.705	-17.817	.631	8.320	MINIMUM
(6)	-20.657	-21.554	1.590	8.496	
(7)	-20.985	-20.543	1.640	8.518	
(8)	-13.236	-17.304	.890	8.683	
(1)	-2.532	23.505	32.023	9.087	
(2)	8.662	31.230	35.738	9.028	
(3)	10.302	26.145	26.242	9.151	
(4)	4.674	12.052	13.530	9.254	
(5)	10.340	9.259	23.256	9.249	MAXIMUM
(6)	8.325	9.583	25.744	9.053	
(7)	5.017	7.825	23.901	9.072	
(8)	12.388	4.327	20.203	9.054	

SUBSURFACE MOORING 295m./DT *** 651,20A ***

PERIOD 5 DAYS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	STATISTIC
(1)	-14.395	10.164	18.232	8.743	
(2)	-17.459	18.688	26.716	8.634	
(3)	-3.721	13.888	15.176	8.872	
(4)	-5.370	3.867	8.028	8.965	
(5)	-4.566	-3.028	9.441	8.733	MEAN
(6)	-5.521	-5.511	10.640	8.646	
(7)	-7.493	-5.360	10.886	8.729	
(8)	-.860	-8.416	10.130	8.723	
(1)	32.547	13.163	23.815	.0115	
(2)	43.115	22.736	6.171	.00865	
(3)	20.531	21.548	18.482	.00402	
(4)	12.465	13.530	5.330	.00937	
(5)	37.274	38.540	16.695	.0430	VARIANCE
(6)	39.416	34.192	21.249	.0105	
(7)	28.495	29.823	24.685	.0106	
(8)	26.969	22.008	17.933	.00663	
(1)	5.705	3.628	4.880	.107	
(2)	6.566	4.768	2.484	.0930	
(3)	4.531	4.642	4.299	.0634	
(4)	3.531	3.678	2.309	.0968	STANDARD
(5)	6.105	6.208	4.086	.207	DEVIATION
(6)	6.278	5.847	4.610	.102	
(7)	5.338	5.461	4.968	.103	
(8)	5.193	4.691	4.235	.0814	
(1)	.037	.784	.235	.135	
(2)	1.328	-.124	-.0919	1.165	
(3)	.018	.226	.139	-1.745	
(4)	.030	.376	-.367	-.582	
(5)	.328	.008	.608	.233	SKEWNESS
(6)	.170	.143	.473	.555	
(7)	.327	-.300	.181	-.448	
(8)	.302	.009	.241	-.578	
(1)	2.318	2.882	2.307	2.834	
(2)	5.515	2.331	2.951	3.601	
(3)	2.115	2.276	2.121	8.652	
(4)	1.866	2.218	1.966	2.990	
(5)	1.926	2.319	2.587	2.266	KURTOSIS
(6)	2.019	3.153	2.825	3.006	
(7)	2.504	2.192	1.942	2.055	
(8)	2.206	1.887	2.095	3.107	
(1)	-26.685	3.790	8.501	8.393	
(2)	-29.639	8.042	19.507	8.471	
(3)	-13.651	4.063	6.430	8.567	
(4)	-11.923	-3.058	3.050	8.675	
(5)	-16.391	-16.340	.366	8.259	MINIMUM
(6)	-17.960	-23.814	2.032	8.433	
(7)	-19.612	-19.124	.374	8.446	
(8)	-11.336	-18.369	2.669	8.441	
(1)	-1.576	21.370	29.516	8.990	
(2)	7.061	29.690	33.372	8.925	
(3)	5.933	24.569	24.927	8.997	
(4)	2.683	12.121	12.290	9.119	
(5)	8.355	10.258	20.794	9.098	MAXIMUM
(6)	8.360	8.893	25.640	8.940	
(7)	5.365	4.736	21.914	8.908	
(8)	11.774	1.864	20.509	8.894	

SUBSURFACE MOORING 300m,/DT *** 651,21A ***

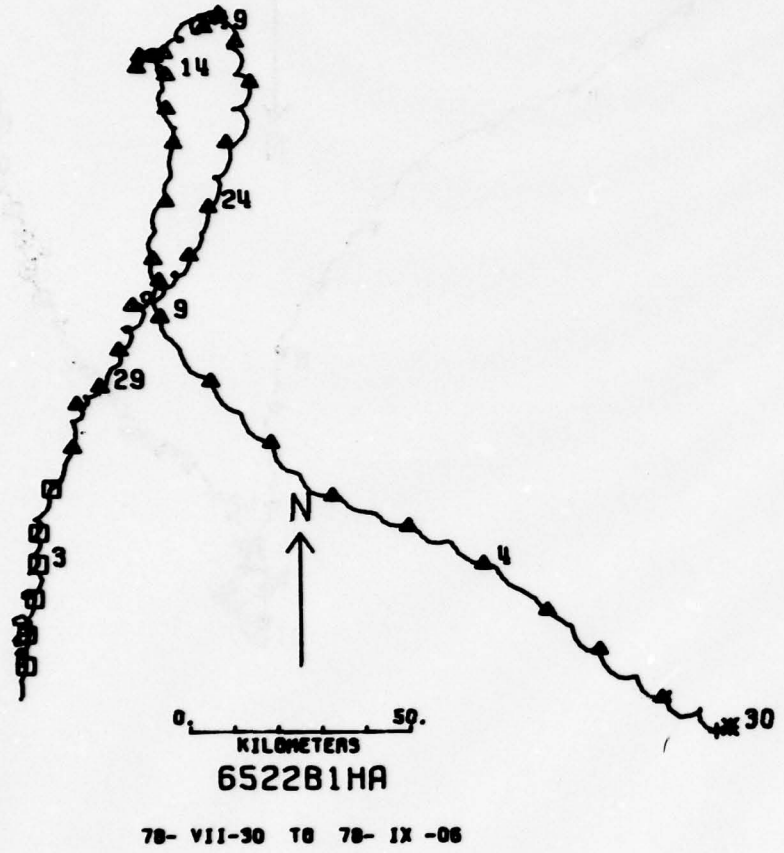
PERIOD 5 DAYS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	TDIF. MDEG/M	STATISTIC
(1)	-13.433	11.523	18.250	8.731	-3.251	
(2)	-15.580	19.313	25.922	8.625	-3.985	
(3)	-3.173	13.859	14.986	8.861	-3.592	
(4)	-5.314	4.187	8.139	8.950	-2.102	
(5)	-4.978	-2.602	9.556	8.722	-4.018	MEAN
(6)	-6.081	-5.051	10.864	8.633	-3.810	
(7)	-7.896	-4.785	10.905	8.716	-3.319	
(8)	-1.450	-8.305	10.235	8.713	-4.090	
(1)	30.645	9.867	20.678	.0109	36.820	
(2)	42.350	19.076	5.228	.00782	11.232	
(3)	19.695	19.776	17.040	.00439	16.260	
(4)	13.082	12.848	5.455	.0106	54.769	
(5)	39.708	36.856	16.796	.0433	30.355	VARIANCE
(6)	43.794	33.934	22.197	.00987	36.742	
(7)	30.924	28.151	25.393	.0103	17.662	
(8)	32.147	20.687	19.143	.00641	11.990	
(1)	5.536	3.141	4.547	.104	6.068	
(2)	6.508	4.366	2.286	.0885	3.351	
(3)	4.438	4.447	4.128	.0663	4.032	
(4)	3.617	3.584	2.336	.103	7.401	STANDARD
(5)	6.301	6.071	4.098	.208	5.510	DEVIATION
(6)	6.618	5.825	4.711	.0993	6.062	
(7)	5.561	5.306	5.039	.102	4.203	
(8)	5.670	4.548	4.375	.0801	3.463	
(1)	.087	.721	.220	.142	.030	
(2)	1.165	-.142	-.339	1.224	.610	
(3)	.067	.131	.0802	-1.732	.553	
(4)	.059	.416	-.304	-.401	1.466	
(5)	.276	.027	.600	.286	.594	SKEWNESS
(6)	.130	.237	.456	.552	1.168	
(7)	.245	-.323	.193	-.436	.408	
(8)	.213	.013	.293	-.608	.164	
(1)	2.404	3.195	2.367	2.786	14.138	
(2)	5.036	2.351	3.048	3.871	10.673	
(3)	2.160	2.244	2.134	8.119	14.599	
(4)	1.926	2.291	1.988	2.405	18.215	
(5)	1.953	2.307	2.504	2.243	15.801	KURTOSIS
(6)	2.014	3.011	2.722	3.013	11.935	
(7)	2.398	2.169	1.933	2.079	11.874	
(8)	2.175	1.911	2.133	3.115	10.932	
(1)	-25.553	5.552	9.074	8.388	-51.004	
(2)	-28.224	8.280	18.790	8.455	-27.892	
(3)	-12.888	4.377	6.687	8.556	-39.764	
(4)	-12.223	-3.059	2.973	8.670	-57.389	
(5)	-17.774	-16.208	1.090	8.250	-59.224	MINIMUM
(6)	-18.704	-21.716	3.061	8.419	-34.316	
(7)	-19.626	-17.998	.402	8.444	-34.229	
(8)	-13.057	-17.345	2.658	8.439	-35.067	
(1)	-1.070	21.870	28.961	8.981	48.117	
(2)	7.699	29.456	31.704	8.919	21.365	
(3)	7.310	23.501	24.040	8.993	34.338	
(4)	2.776	12.829	12.829	9.109	58.125	
(5)	8.021	10.143	20.977	9.094	38.782	MAXIMUM
(6)	8.185	9.001	25.852	8.939	54.093	
(7)	5.127	4.701	21.836	8.905	29.526	
(8)	10.996	1.496	20.662	8.884	16.813	

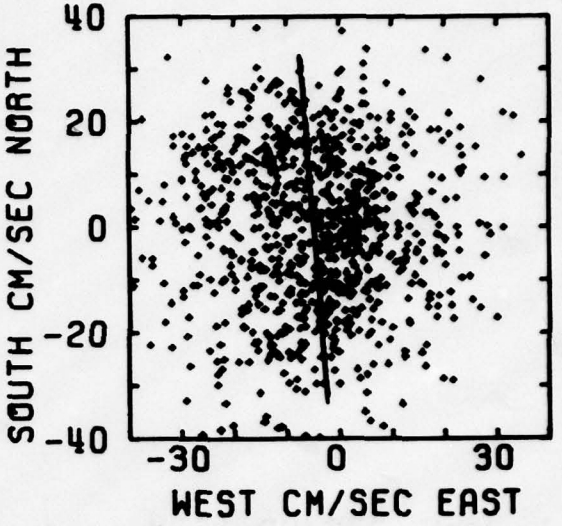
SUBSURFACE MOORING 310m./VACM *** 651,22A ***

PERIOD 5 DAYS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	PRESSURE DECIBARS	STATISTIC
(1)	-13.606	11.160	18.137	8.703	318.194	
(2)	-16.199	18.559	25.713	8.600	322.803	
(3)	-3.120	13.882	14.968	8.830	317.202	
(4)	-5.216	4.213	8.080	8.914	316.419	
(5)	-5.063	-2.506	9.367	8.700	316.667	MEAN
(6)	-6.110	-4.780	10.634	8.603	316.718	
(7)	-7.831	-4.462	10.726	8.682	316.983	
(8)	-1.774	-8.125	10.092	8.686	316.848	
(1)	30.701	9.215	20.651	.00948	3.928	
(2)	39.006	20.409	5.103	.00668	4.212	
(3)	18.729	20.451	17.561	.00500	1.371	
(4)	13.378	12.254	5.306	.0129	.844	
(5)	36.851	34.523	15.555	.0429	.834	VARIANCE
(6)	41.879	31.000	19.976	.00901	.109	
(7)	30.614	27.805	24.588	.00929	.182	
(8)	32.892	17.904	18.116	.00566	.290	
(1)	5.541	3.036	4.544	.0974	1.982	
(2)	6.245	4.518	2.259	.0817	2.052	
(3)	4.328	4.522	4.191	.0707	1.171	
(4)	3.658	3.501	2.303	.113	.738	STANDARD
(5)	6.071	5.876	3.944	.207	.730	DEVIATION
(6)	6.471	5.568	4.469	.0949	.330	
(7)	5.533	5.273	4.959	.0964	.389	
(8)	5.735	4.231	4.256	.0753	.838	
(1)	.118	.628	.122	-.0541	1.846	
(2)	1.335	-.088	-.215	1.282	.582	
(3)	.023	.175	.140	-1.776	1.233	
(4)	.033	.352	-.273	-.183	.276	
(5)	.257	.060	.633	.332	-.168	SKEWNESS
(6)	.159	.320	.501	.653	-.146	
(7)	.242	-.278	.243	-.463	.290	
(8)	.193	.045	.296	-.651	-.094	
(1)	2.341	2.736	2.305	3.121	5.792	
(2)	5.536	2.408	3.005	4.324	3.589	
(3)	2.123	2.370	2.164	7.809	4.181	
(4)	1.902	2.331	1.940	1.860	2.160	
(5)	1.981	2.249	2.506	2.207	2.059	KURTOSIS
(6)	2.093	2.991	2.899	3.115	3.083	
(7)	2.333	2.232	2.004	2.065	3.115	
(8)	2.210	2.014	2.209	2.941	1.857	
(1)	-24.896	5.615	8.587	8.371	316.037	
(2)	-27.606	7.276	19.184	8.432	318.463	
(3)	-12.702	4.080	6.579	8.518	315.691	
(4)	-12.192	-3.961	2.905	8.660	315.171	
(5)	-17.614	-15.332	.675	8.237	315.124	MINIMUM
(6)	-20.249	-19.821	2.800	8.427	315.880	
(7)	-19.597	-17.543	.432	8.473	316.163	
(8)	-13.316	-17.062	1.617	8.440	315.801	
(1)	-.664	19.878	28.212	8.956	325.047	
(2)	6.654	25.566	31.729	8.889	329.110	
(3)	6.410	24.175	24.560	8.970	321.219	
(4)	2.626	12.774	12.799	9.089	318.258	
(5)	7.992	9.750	19.922	9.069	318.101	MAXIMUM
(6)	7.689	9.688	26.567	8.895	317.689	
(7)	4.811	4.980	22.004	8.863	318.274	
(8)	11.150	1.517	20.604	8.823	317.785	

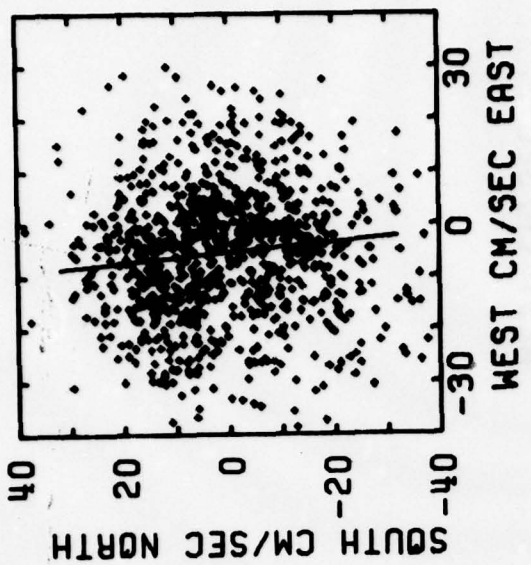
SUBSURFACE MOORING 1000m./DT *** 651,23C ***

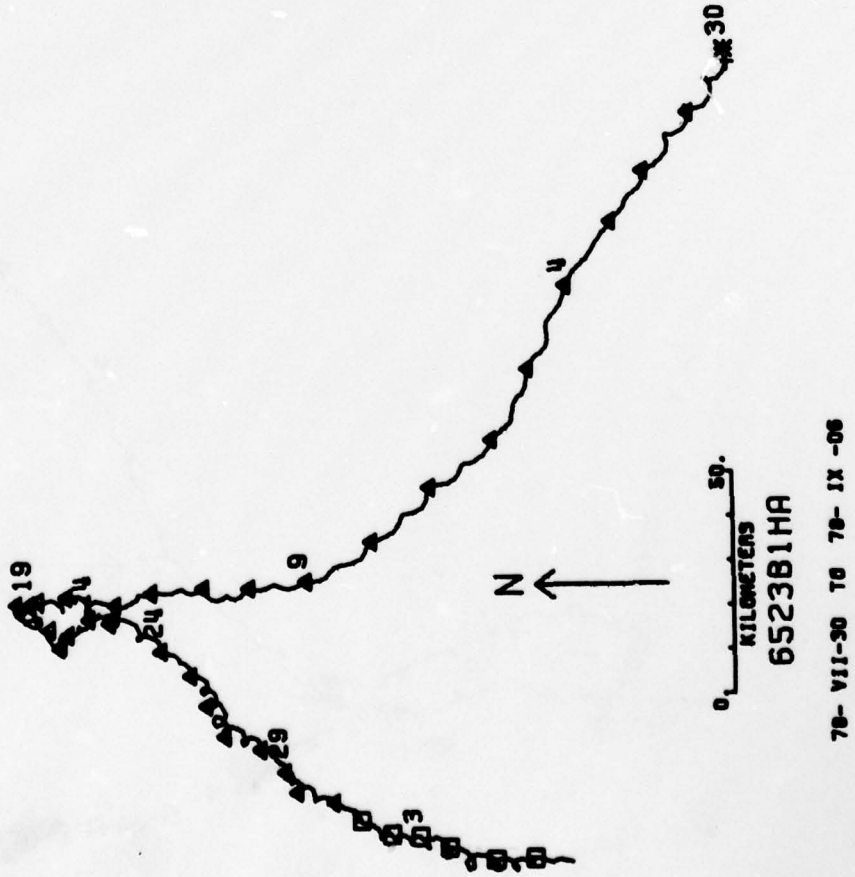
PERIOD 5 DAYS	EAST CM/SEC	NORTH CM/SEC	SPEED CM/SEC	TEMPERATURE CELSIUS	STATISTIC
(1)	-5.040	4.146	10.504	6.624	
(2)	-5.391	7.196	10.706	6.606	
(3)	-1.665	4.455	8.111	6.842	
(4)	-6.189	.316	9.295	7.207	
(5)	-6.181	-2.903	10.219	7.209	MEAN
(6)	-1.941	-2.545	6.897	7.176	
(7)	-4.770	-3.928	8.856	7.254	
(8)	-2.728	-6.813	9.234	7.203	
(1)	30.839	55.319	18.420	.0104	
(2)	16.274	31.194	13.695	.0136	
(3)	22.443	46.526	25.793	.0243	
(4)	18.640	46.687	17.329	.00608	
(5)	16.941	55.926	15.072	.0124	VARIANCE
(6)	16.499	28.193	7.367	.0106	
(7)	25.198	34.178	19.133	.0106	
(8)	16.871	35.009	20.464	.00892	
(1)	5.553	7.438	4.292	.102	
(2)	4.034	5.585	3.701	.117	
(3)	4.737	6.821	5.079	.156	
(4)	4.317	6.833	4.163	.0780	STANDARD
(5)	4.116	7.478	3.882	.111	DEVIATION
(6)	4.062	5.310	2.714	.103	
(7)	5.020	5.846	4.374	.103	
(8)	4.107	5.917	4.524	.0944	
(1)	.360	-.047	.257	-.141	
(2)	-.205	-.294	-.0833	-.195	
(3)	-.273	.439	.796	-.301	
(4)	.179	-.165	-.0919	-.503	
(5)	.073	.113	.437	.173	SKEWNESS
(6)	.106	-.081	.519	1.109	
(7)	-.351	.083	.313	-.00808	
(8)	.042	.384	.208	.350	
(1)	2.823	2.530	2.506	2.431	
(2)	2.533	2.625	2.988	2.404	
(3)	2.739	2.288	2.534	2.348	
(4)	2.349	2.046	1.835	3.183	
(5)	2.812	2.173	2.777	2.989	KURTOSIS
(6)	2.185	2.195	2.847	3.976	
(7)	2.305	2.618	2.063	2.946	
(8)	2.306	2.169	1.797	3.196	
(1)	-16.569	-14.612	2.000	6.335	
(2)	-16.473	-7.461	1.653	6.290	
(3)	-17.157	-9.301	2.000	6.419	
(4)	-15.888	-13.994	2.000	6.964	
(5)	-17.700	-20.194	2.120	6.909	MINIMUM
(6)	-11.619	-16.241	2.021	6.935	
(7)	-16.837	-17.826	2.120	6.959	
(8)	-13.625	-17.625	2.201	6.916	
(1)	9.674	21.490	22.113	6.847	
(2)	3.726	19.865	21.299	6.870	
(3)	9.569	20.436	22.845	7.204	
(4)	4.642	13.240	17.829	7.393	
(5)	4.868	13.203	22.315	7.532	MAXIMUM
(6)	8.514	8.890	16.825	7.544	
(7)	5.621	12.560	19.506	7.514	
(8)	8.623	6.565	19.140	7.486	



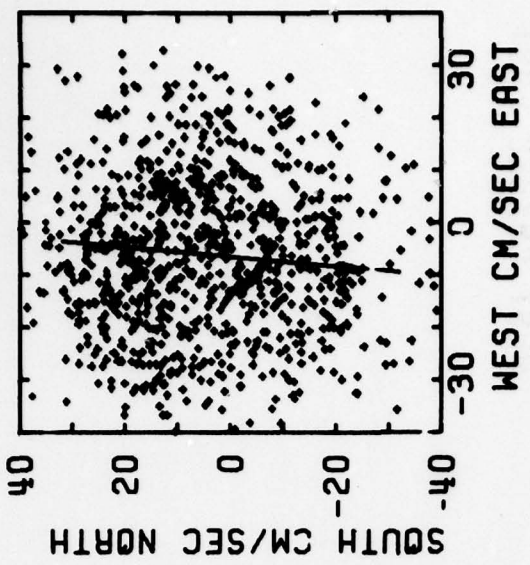


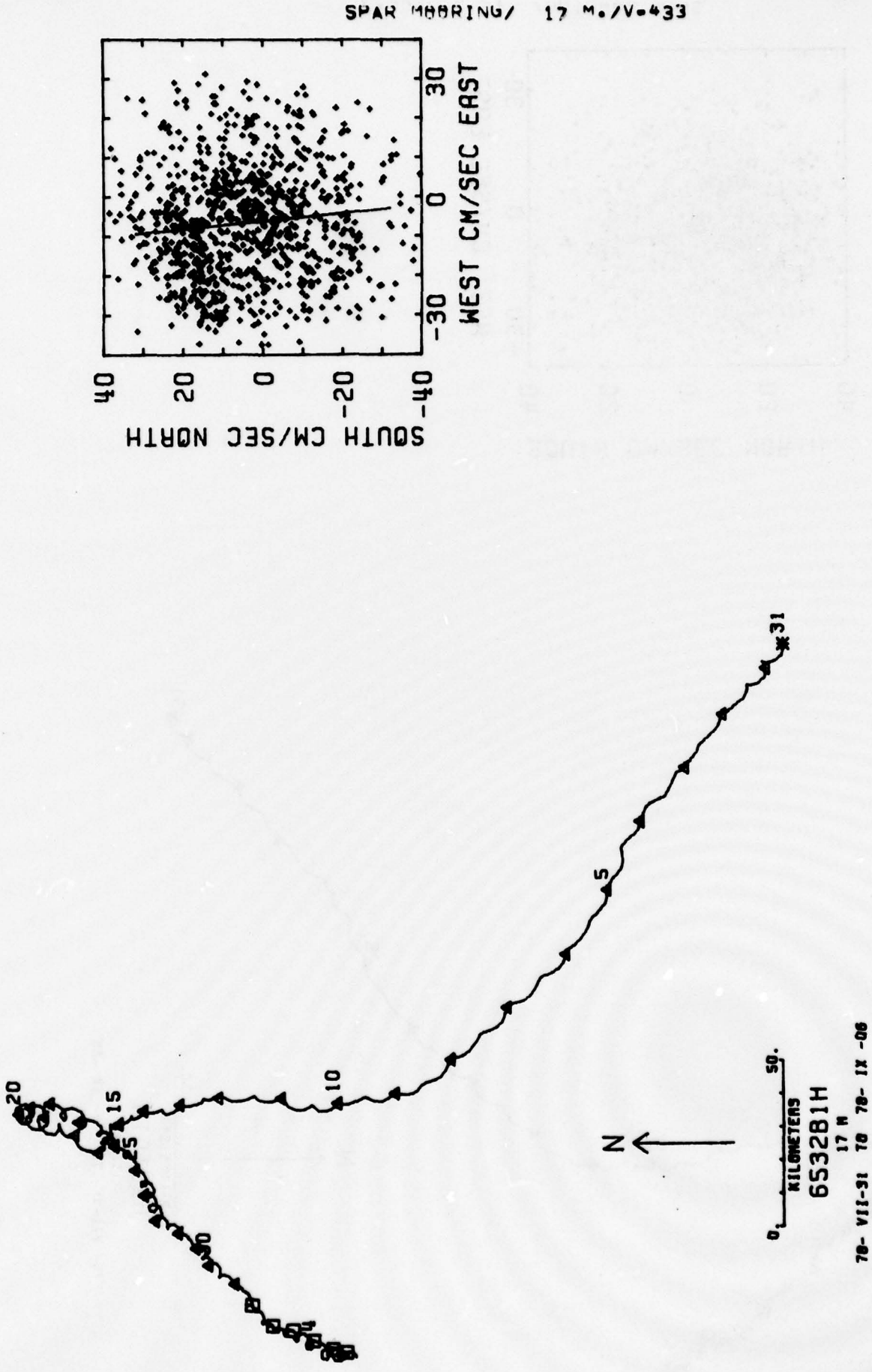
SURFACE MOORING/ 1.5 M°/VMCM-1


SURFACE MOORING/ 15 M./VMCM=4
SOUTH CM/SEC NORTH
40
20
0
-20
-40
WEST CM/SEC EAST
30
0
-30


30
9
24
19
3
29
N
0
50.
KILOMETERS
652381HA
78- VII-30 TO 78- IX -06

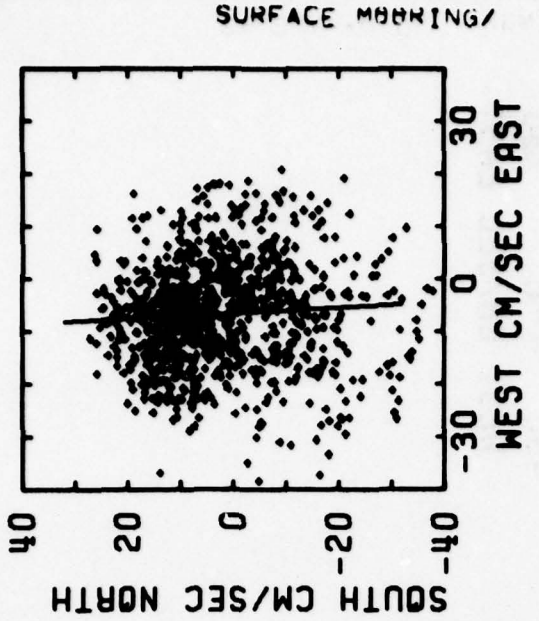
SPAR MOORING/ 15 M./ACM-1

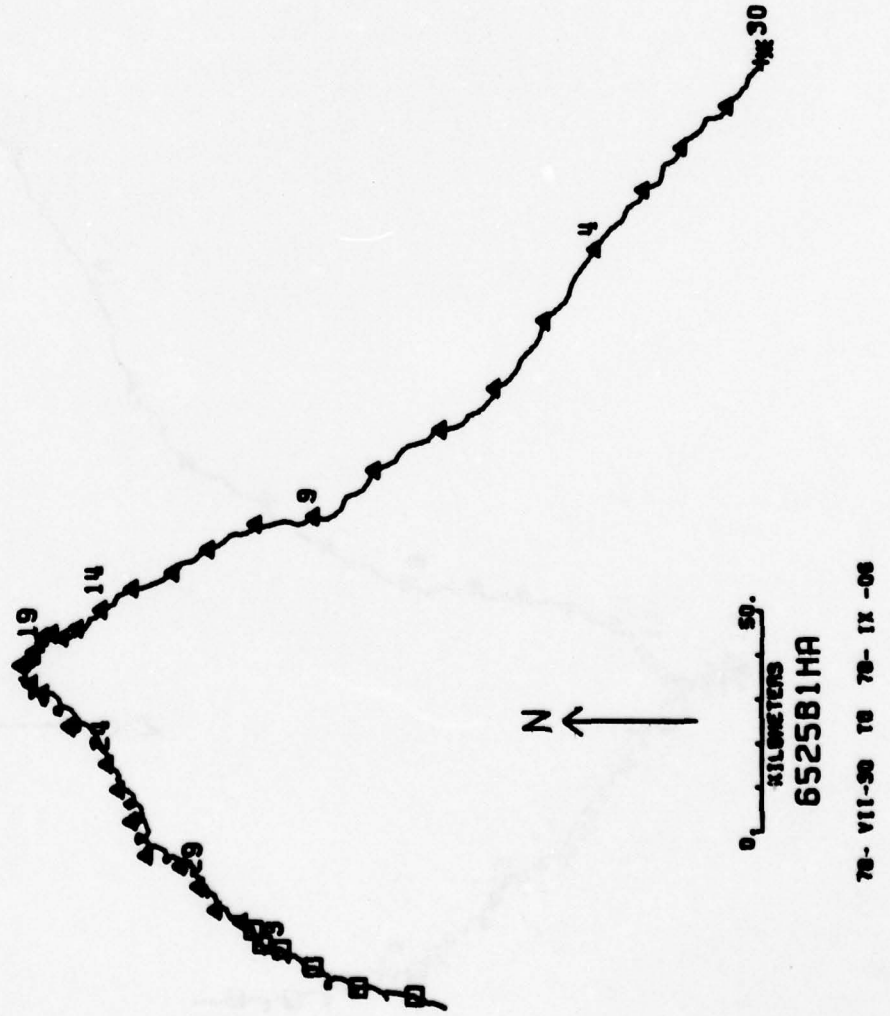



SPAR MOORING/ 17 M./V=433
SOUTH CM/SEC NORTH
40
20
0
-20
-40
WEST CM/SEC EAST
30
0
-30
N
0
KILOMETERS
50.
6532B1H
17 M
78- VII-31 78- IX -06
5
10
15
20
25
31

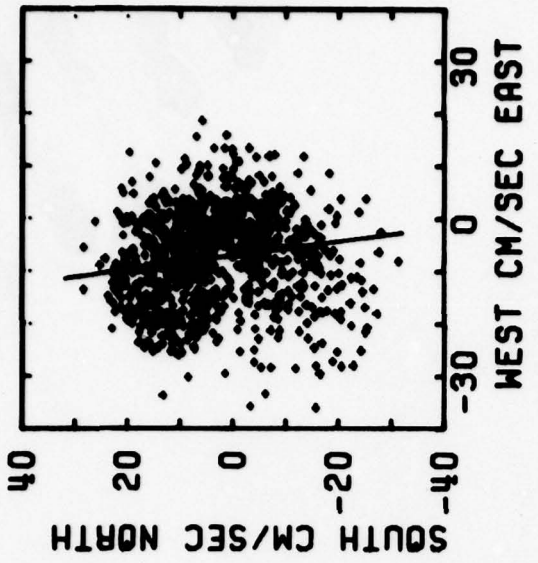
SURFACE MOORING/ 20 M./VMCM=3
WEST CM/SEC EAST
SOUTH CM/SEC NORTH
30
0
-30
40
20
0
-20
-40

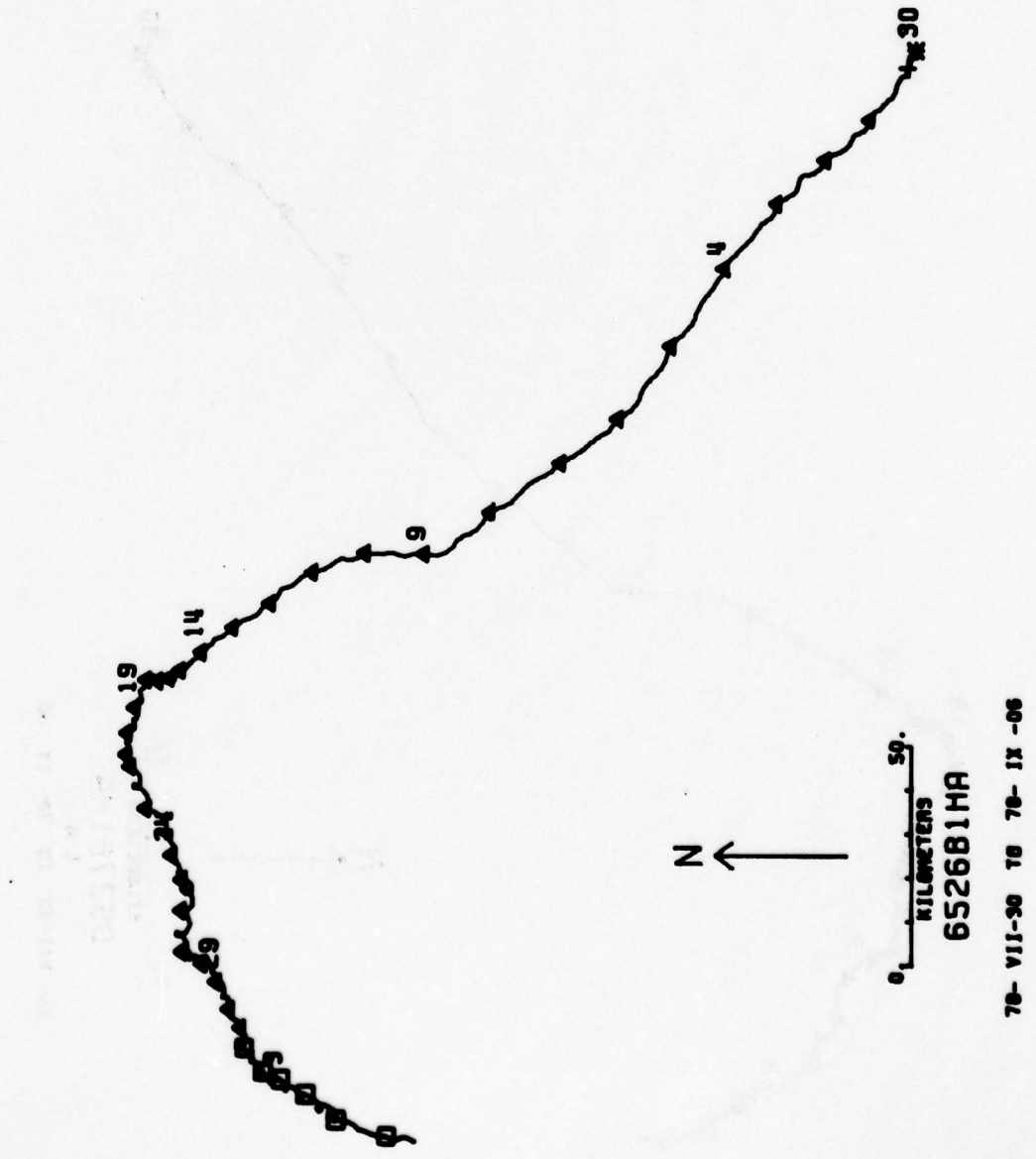
N
KILOMETERS
652481HA
70- VII-30 TO 70- II -08


SURFACE MOORING/ 30 M./VMCM=8
SOUTH CM/SEC NORTH
WEST CM/SEC EAST
40
20
0
-20
-40
30
0
-30

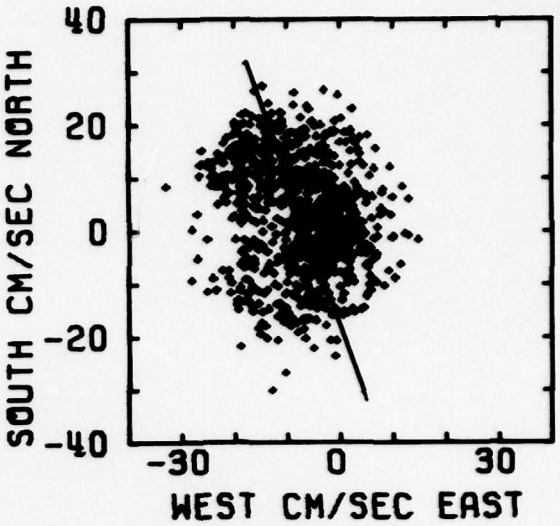

N
0
50.
KILOMETERS
6525B1HA
78- VII-30 TO 78- IX -06

SURFACE MOORING/ 40 M•/VMCM•6

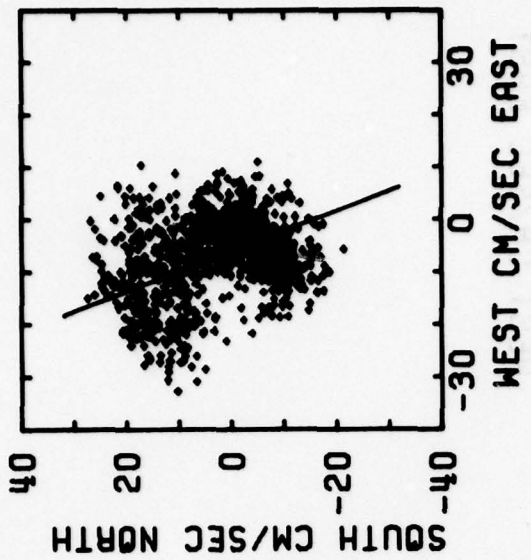


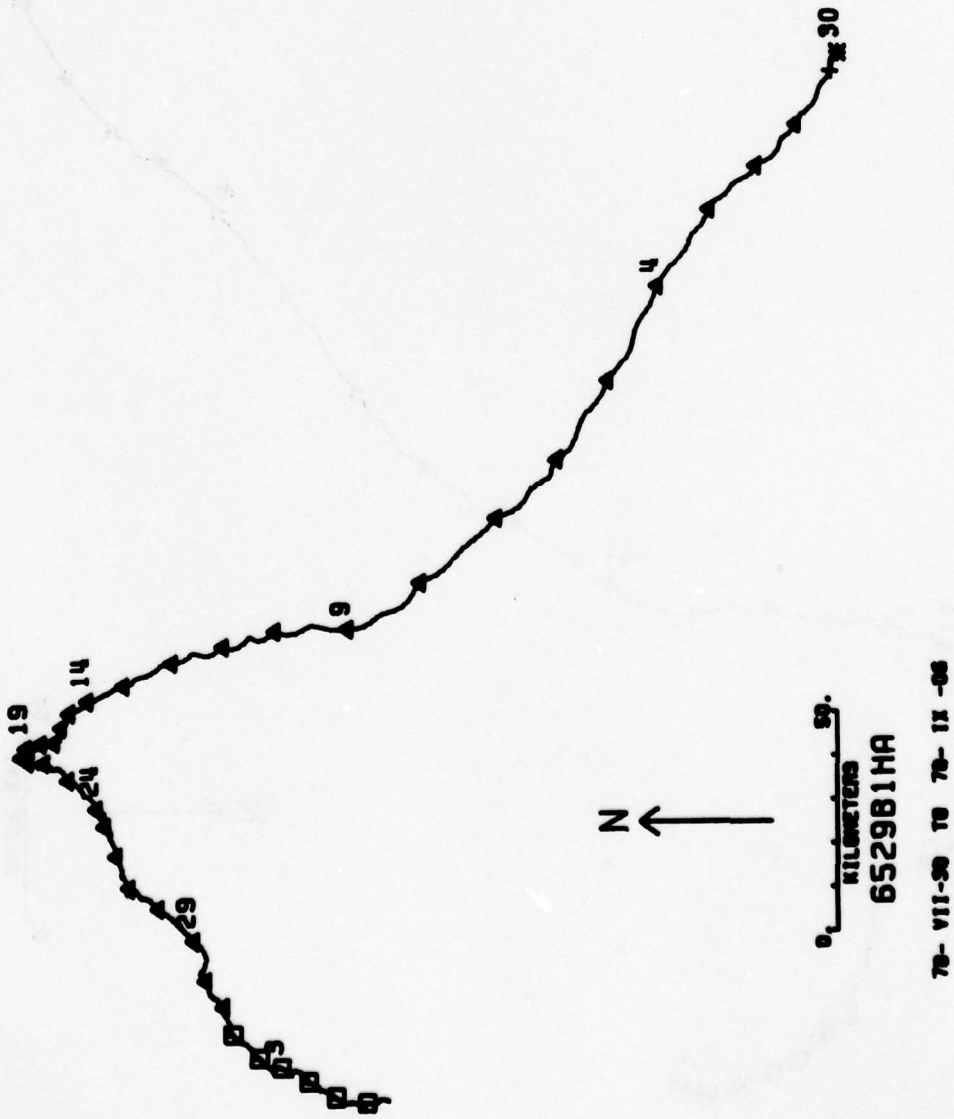



19
14
24
29
3
9
4
30
N
0
50.
KILOMETERS
652781HA
0 M
78- VII-30 18 78- IX - 06

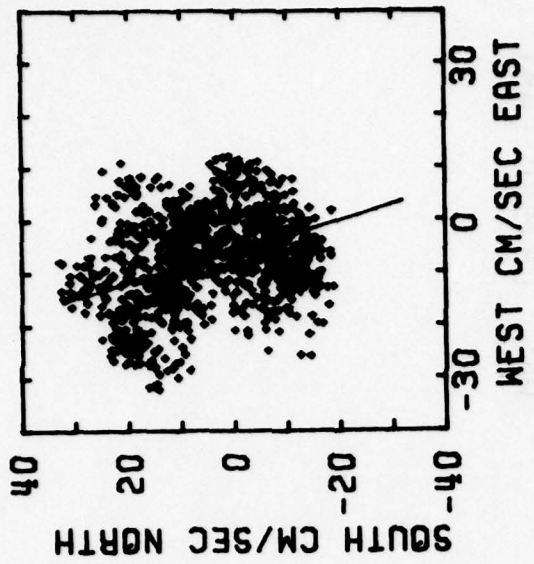

40
20
0
-20
-40
SOUTH CM/SEC NORTH
-30
0
30
WEST CM/SEC EAST

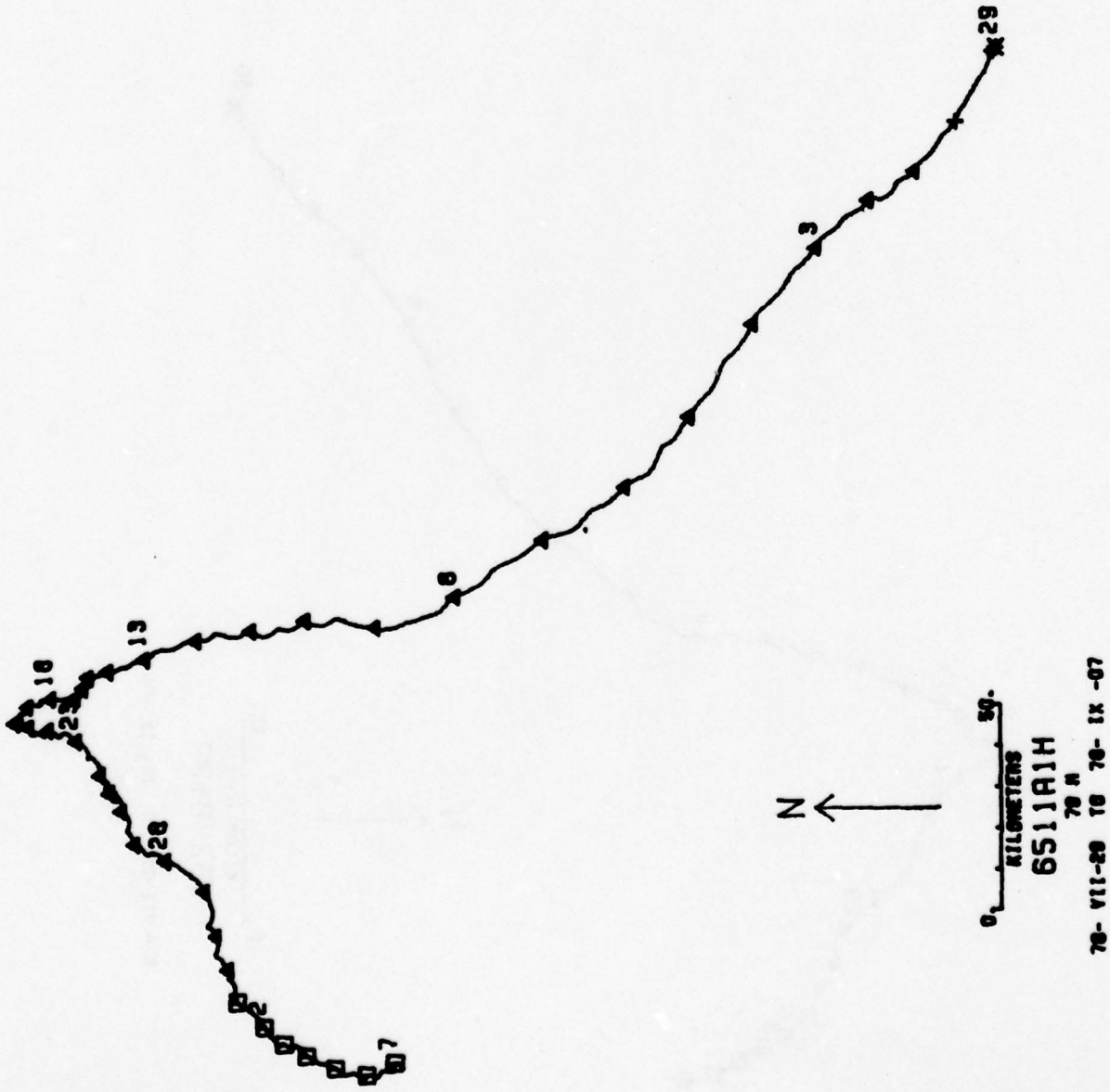
SURFACE MOORING/ 70 M•/VMCM•14

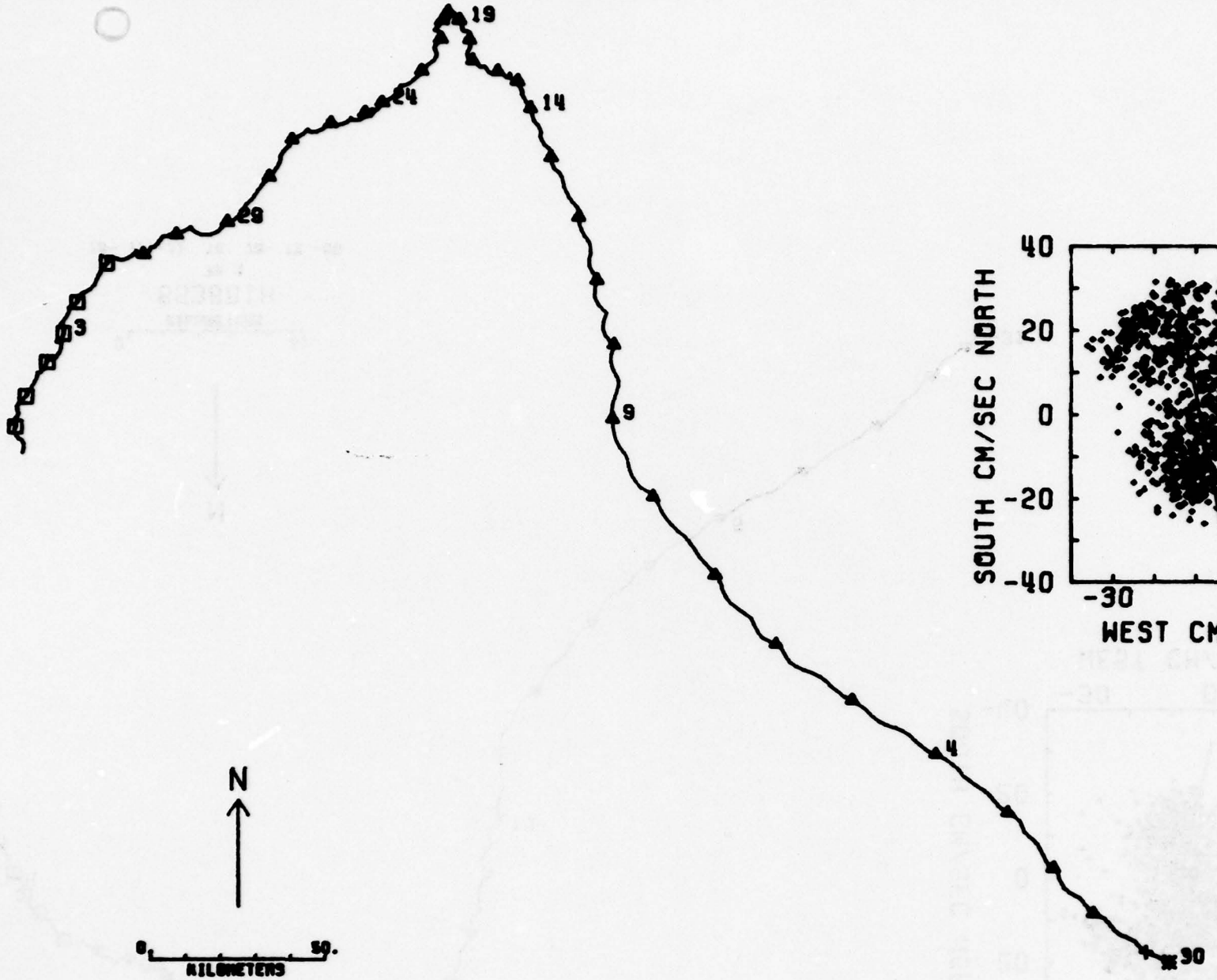




SUBSURFACE MOORING/ 79 M./ DT-5104

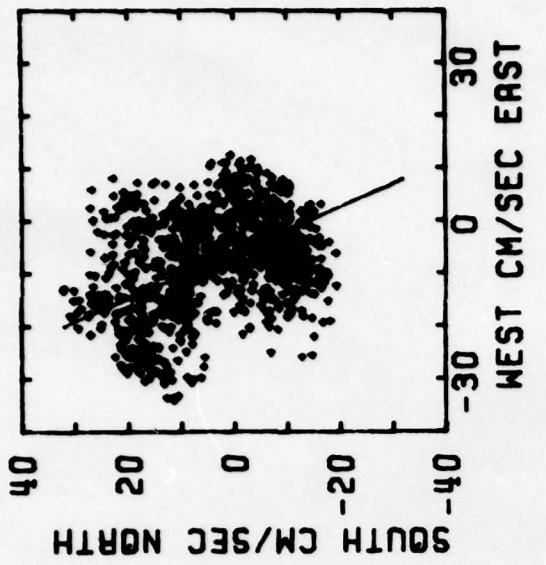


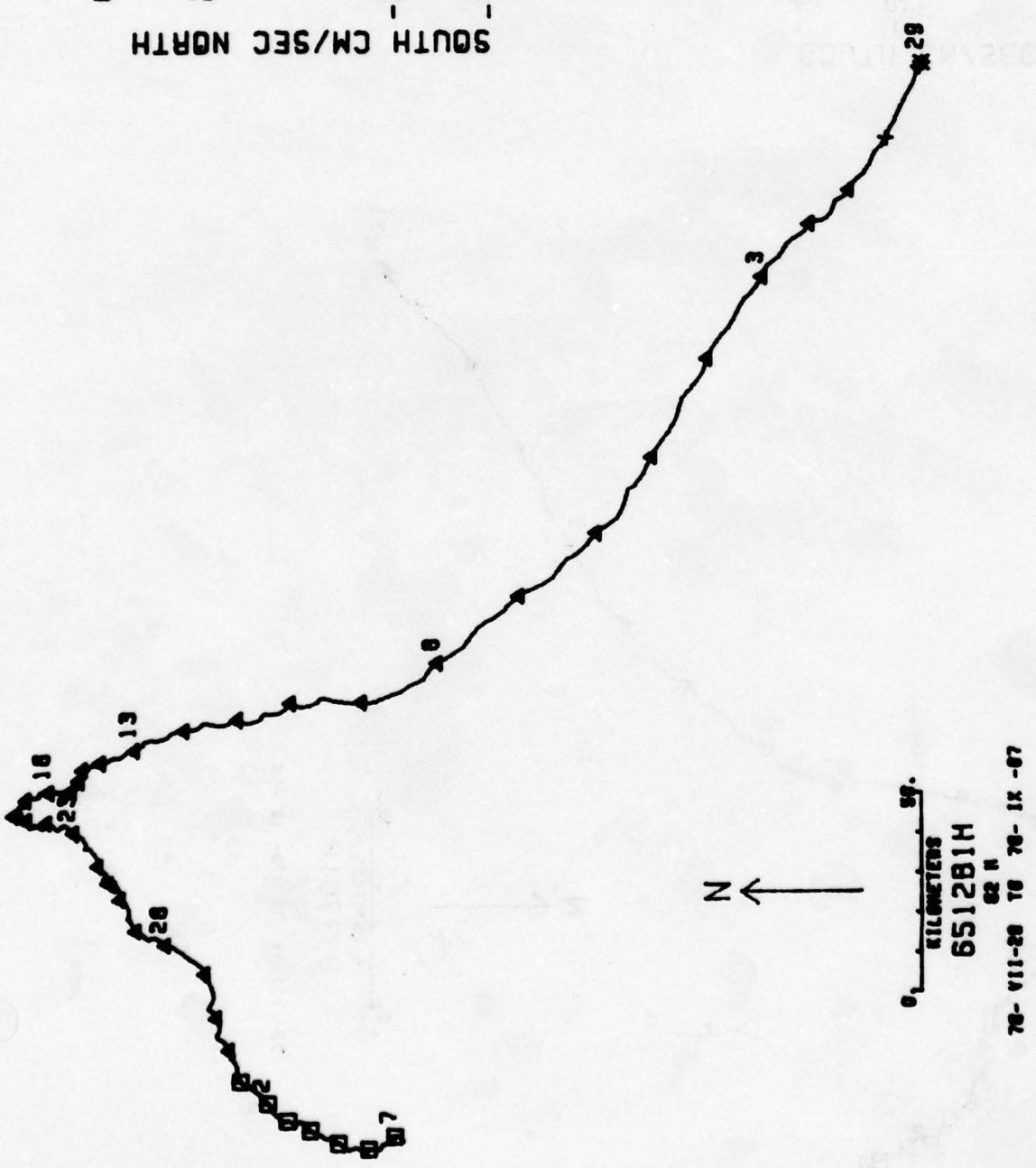



19
14
9
4
30
29
24
3
N
0
50
KILOMETERS
652,10A1H
78 M
78- VII-30 TO 78- IX -06

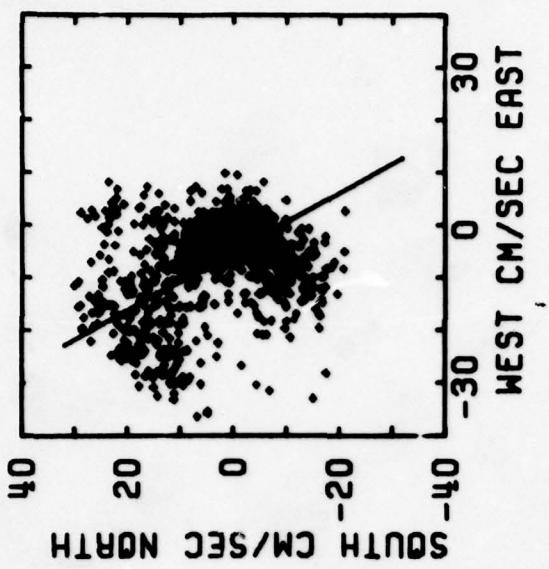
40
20
0
-20
-40
SOUTH CM/SEC NORTH
-30
0
30
WEST CM/SEC EAST

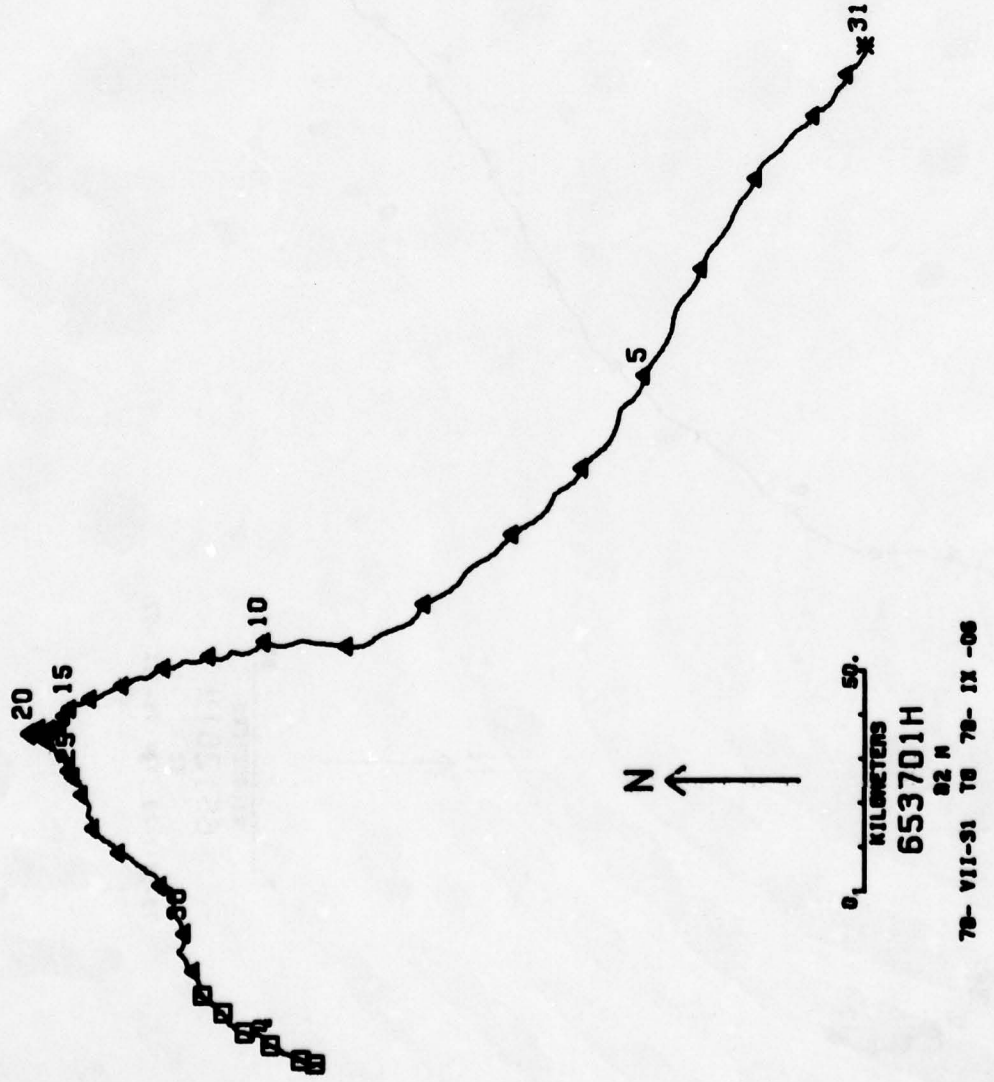
SPAR MOORING/ 79 M./DT-5113


SOUTH CM/SEC NORTH
40
20
0
-20
-40
WEST CM/SEC EAST
30
0
-30

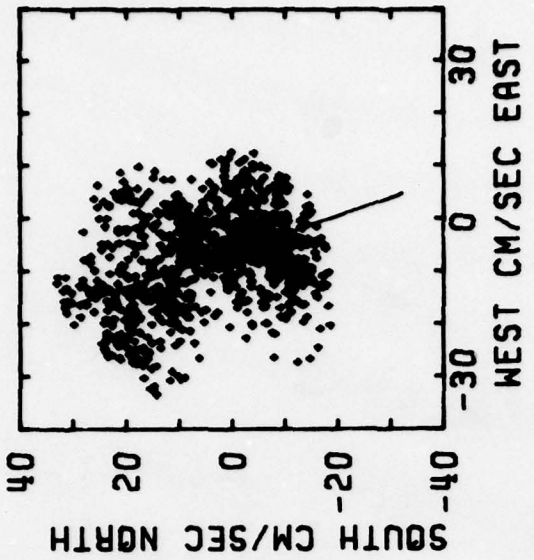

N
0
50.
KILOMETERS
6512B1H
82 M
70- VII-28 TO 70- IX -07

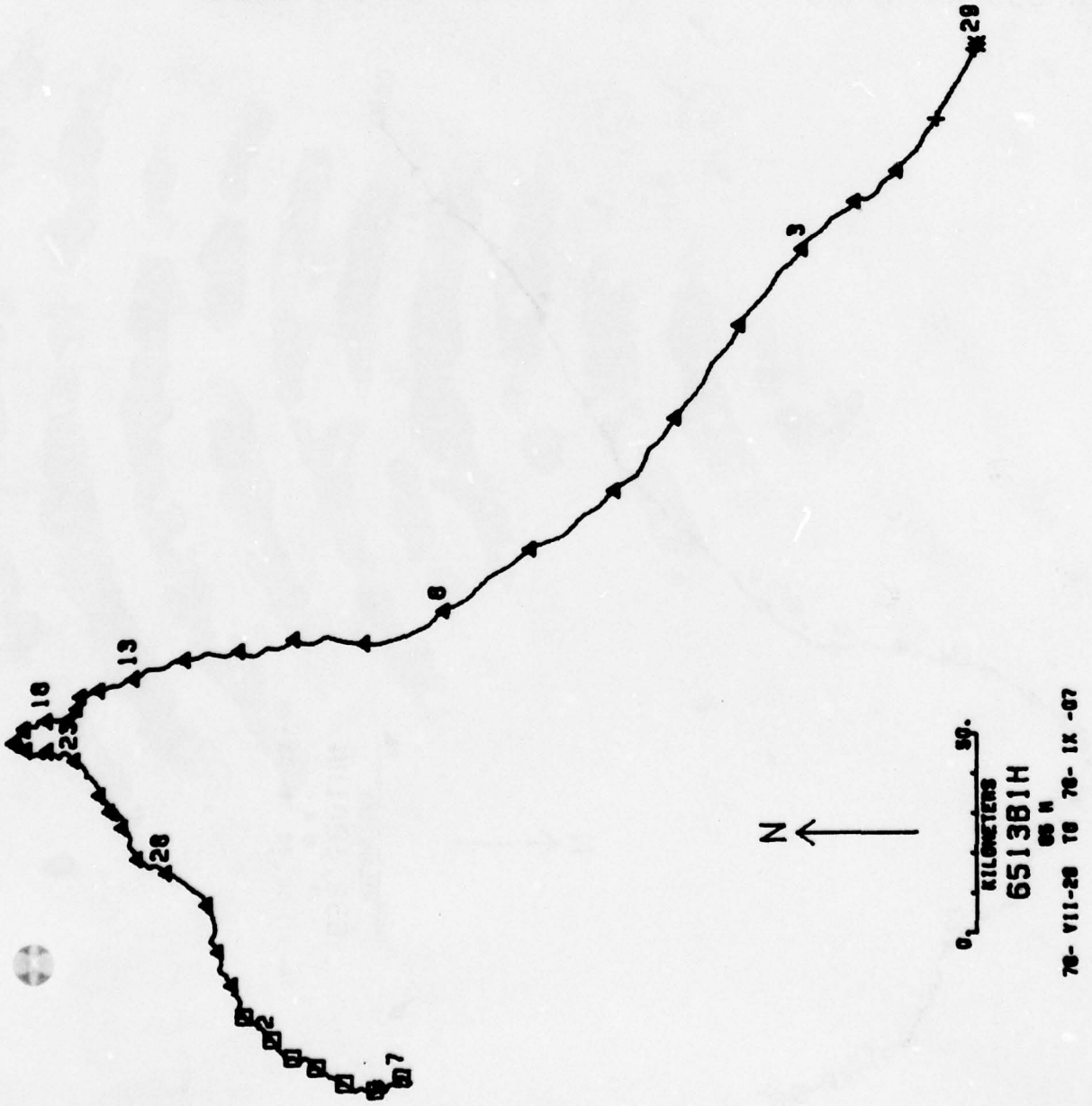
SPAR MOORING/ 82 M./ACM-1

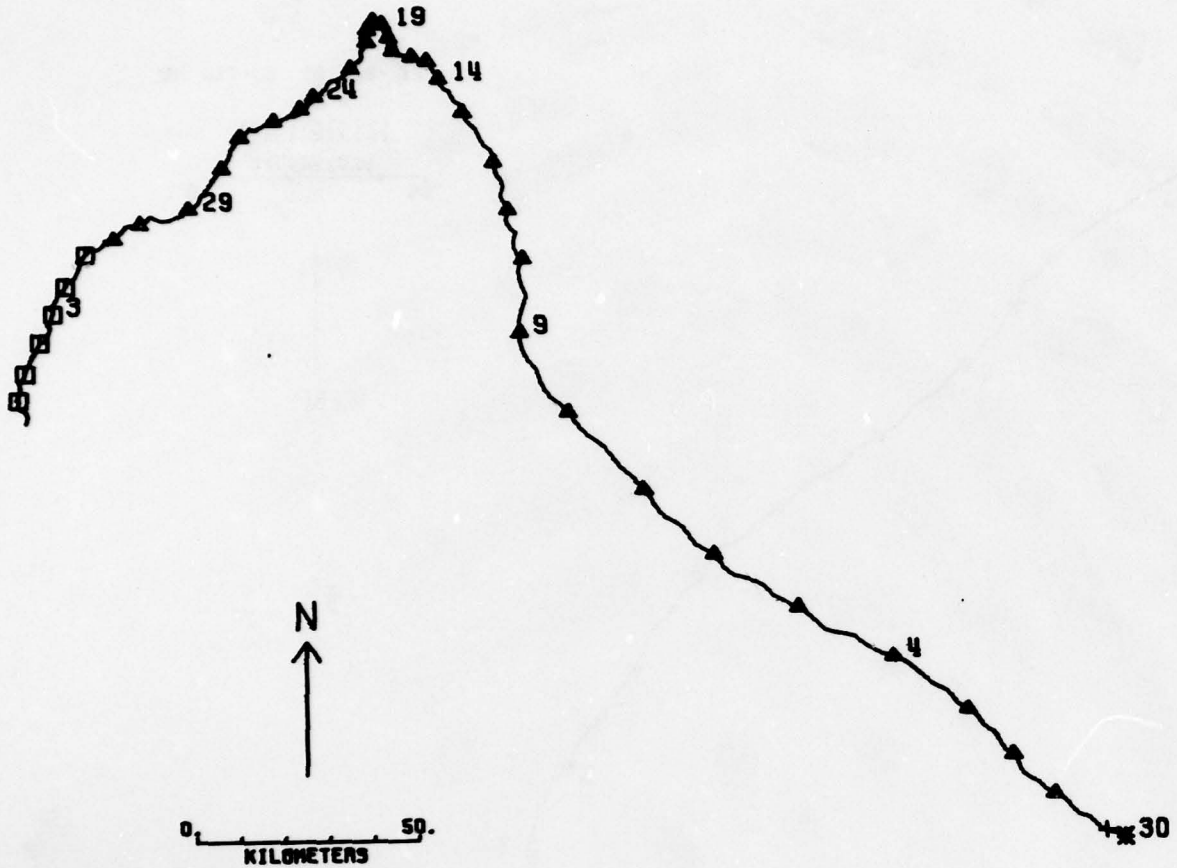


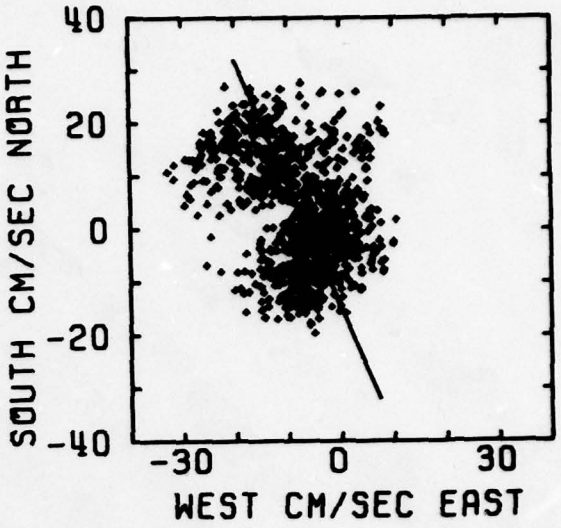


SUBSURFACE MOORING/ 85 M./ V-326P

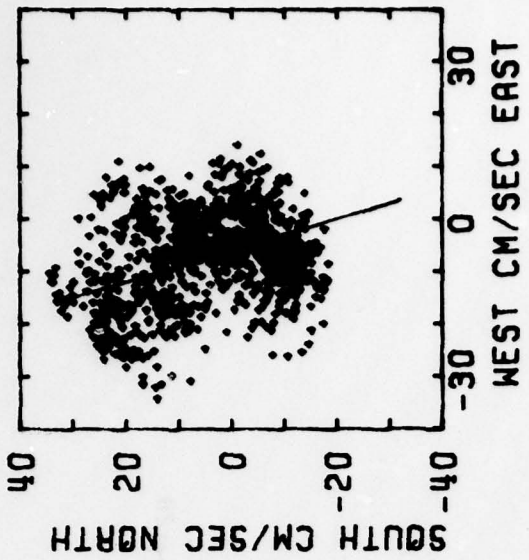


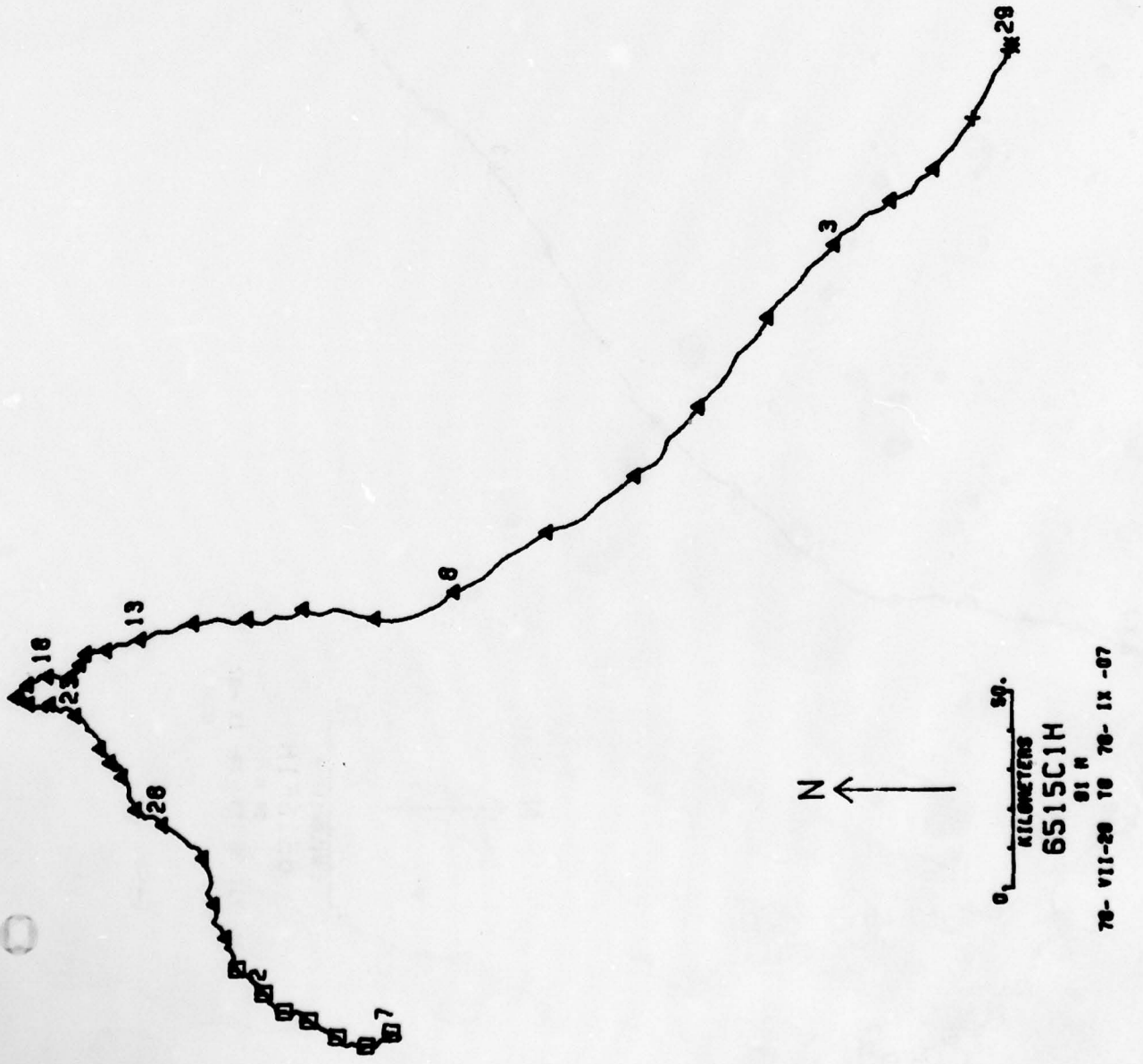


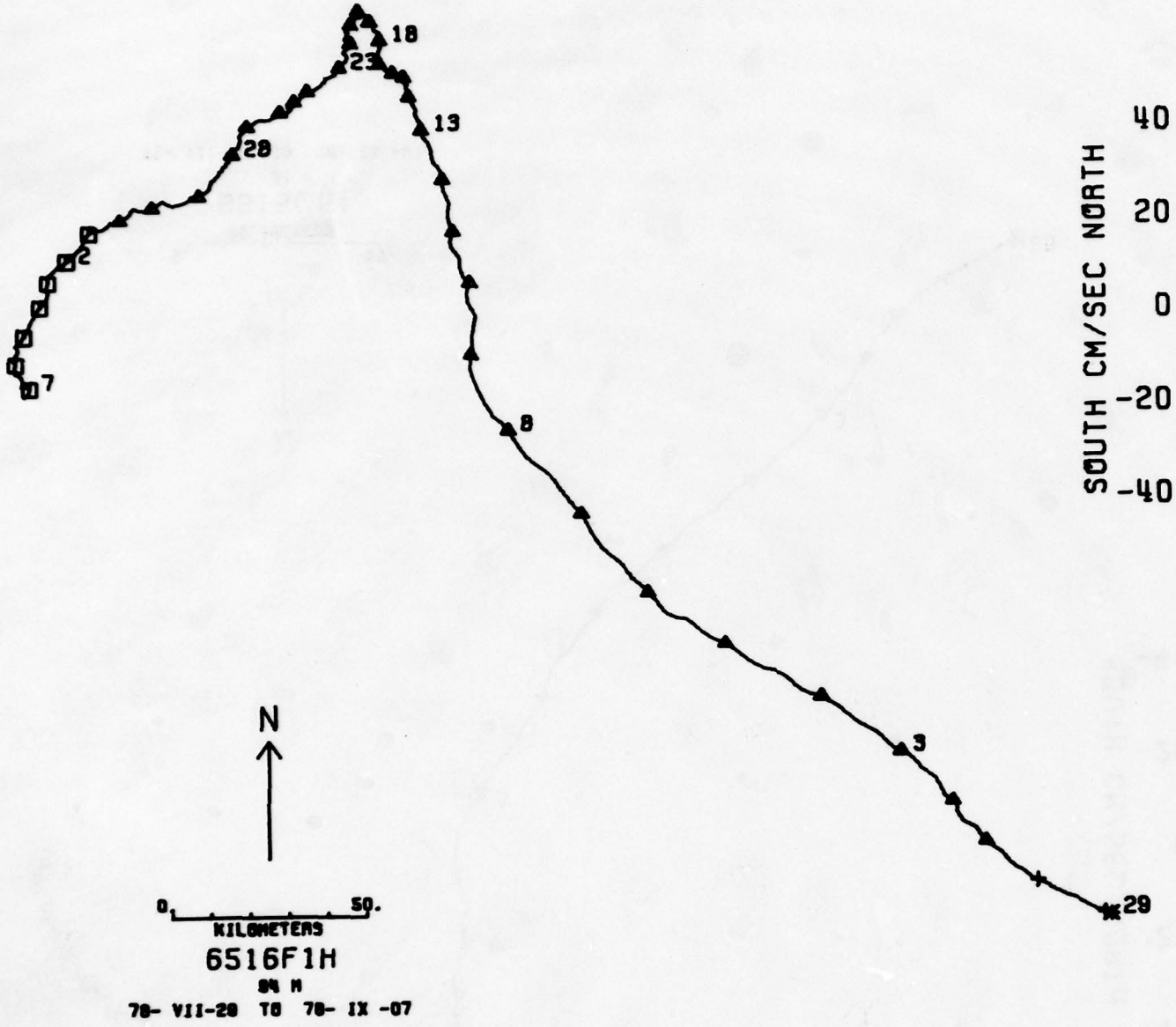

19
14
24
29
9
4
30
N
0
50.
KILOMETERS
652,12B1HA
D M
78- VII-30 TO 78- IX -06

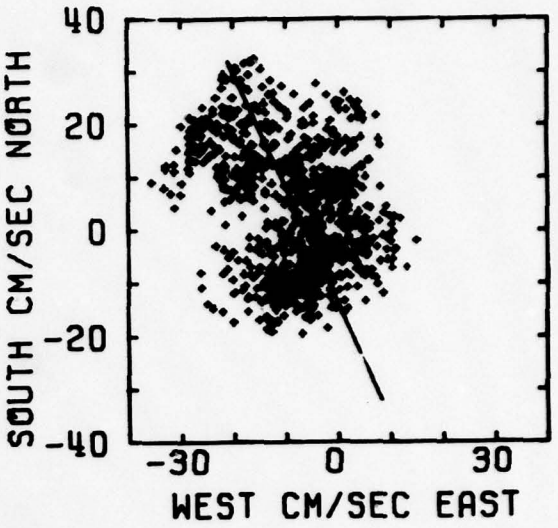

40
20
0
-20
-40
SOUTH CM/SEC NORTH
-30
0
30
WEST CM/SEC EAST

SUBSURFACE MOORING/ 91 M./ DT-5107



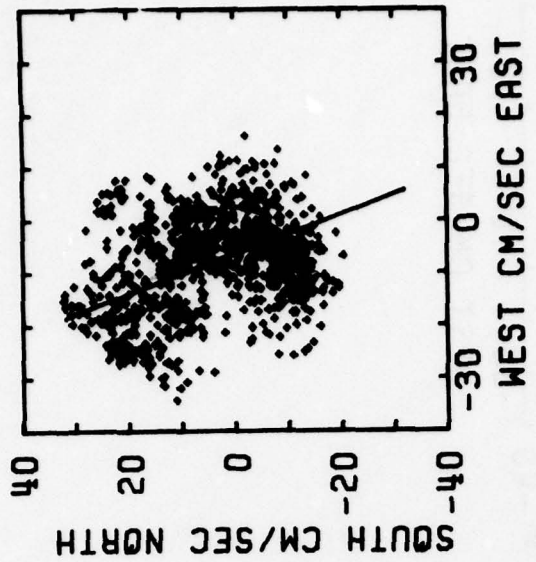


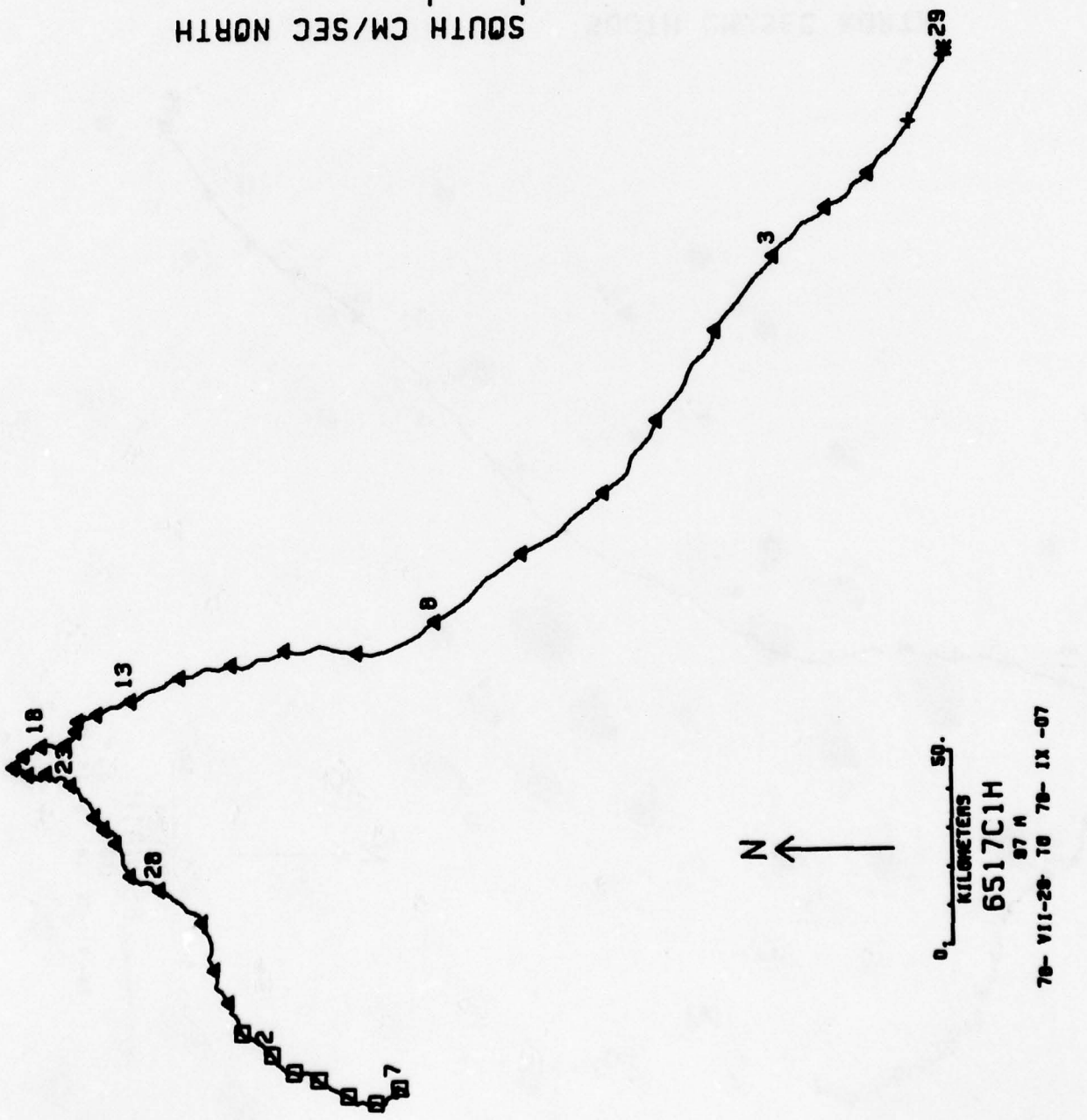


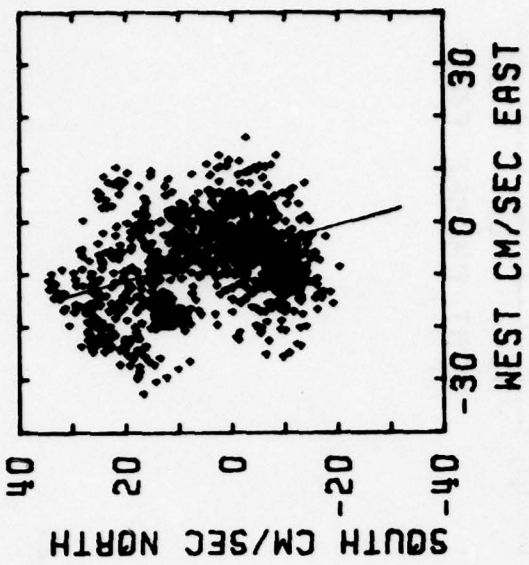


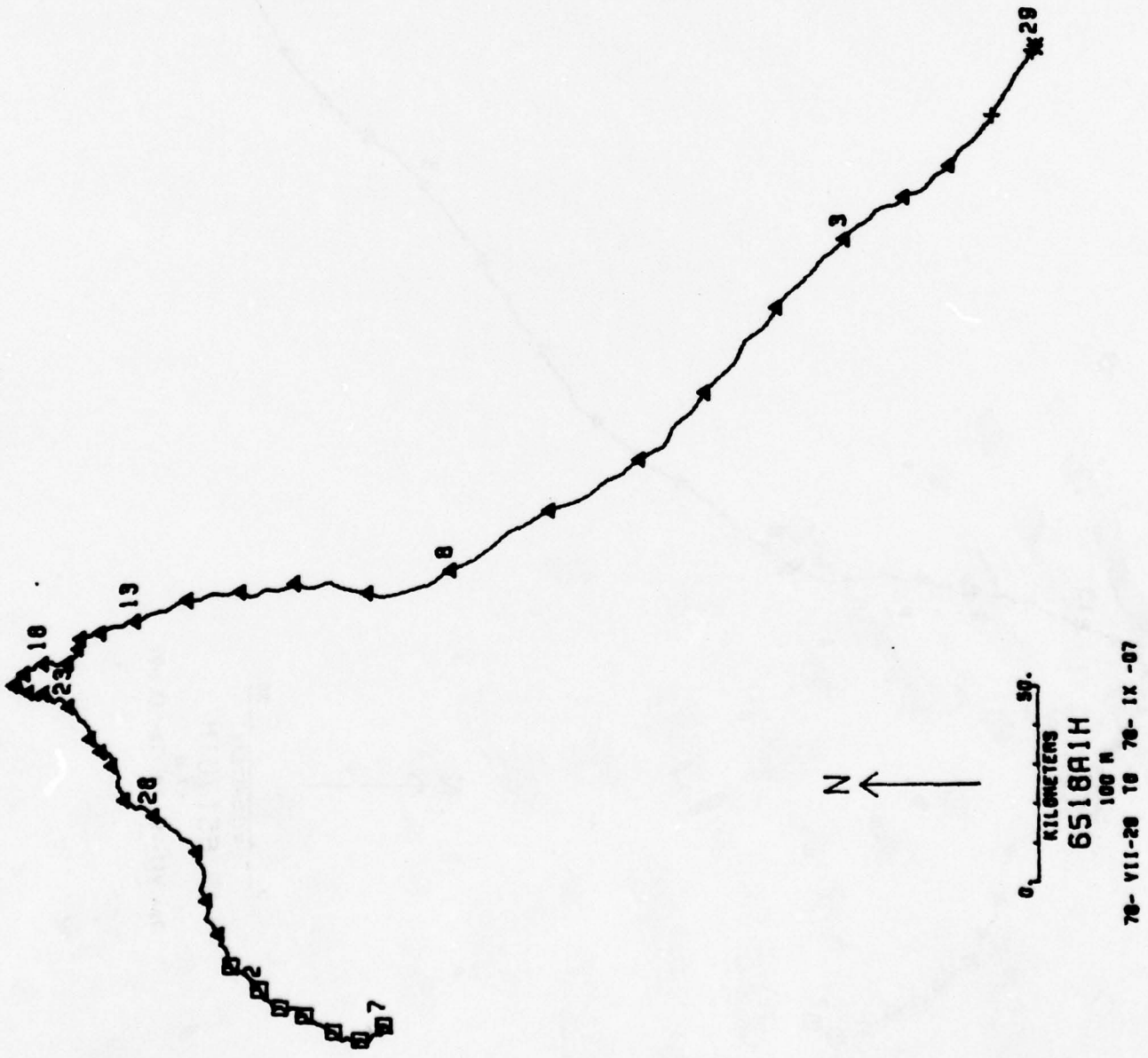
SUBSURFACE MOORING/ 94 M./ V-177

SUBSURFACE MOORING/ 97 M./ V=386

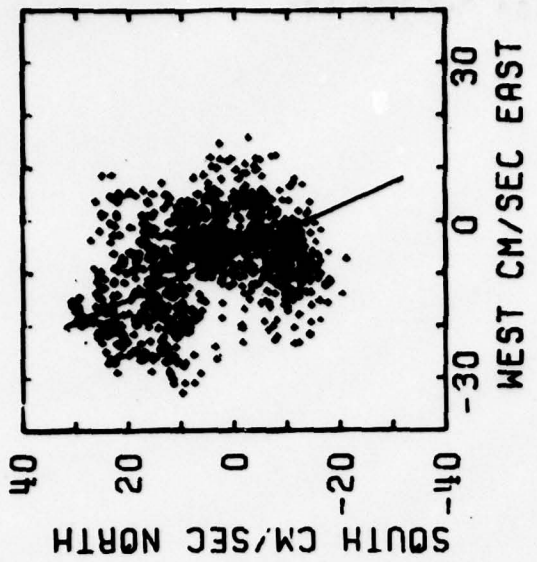


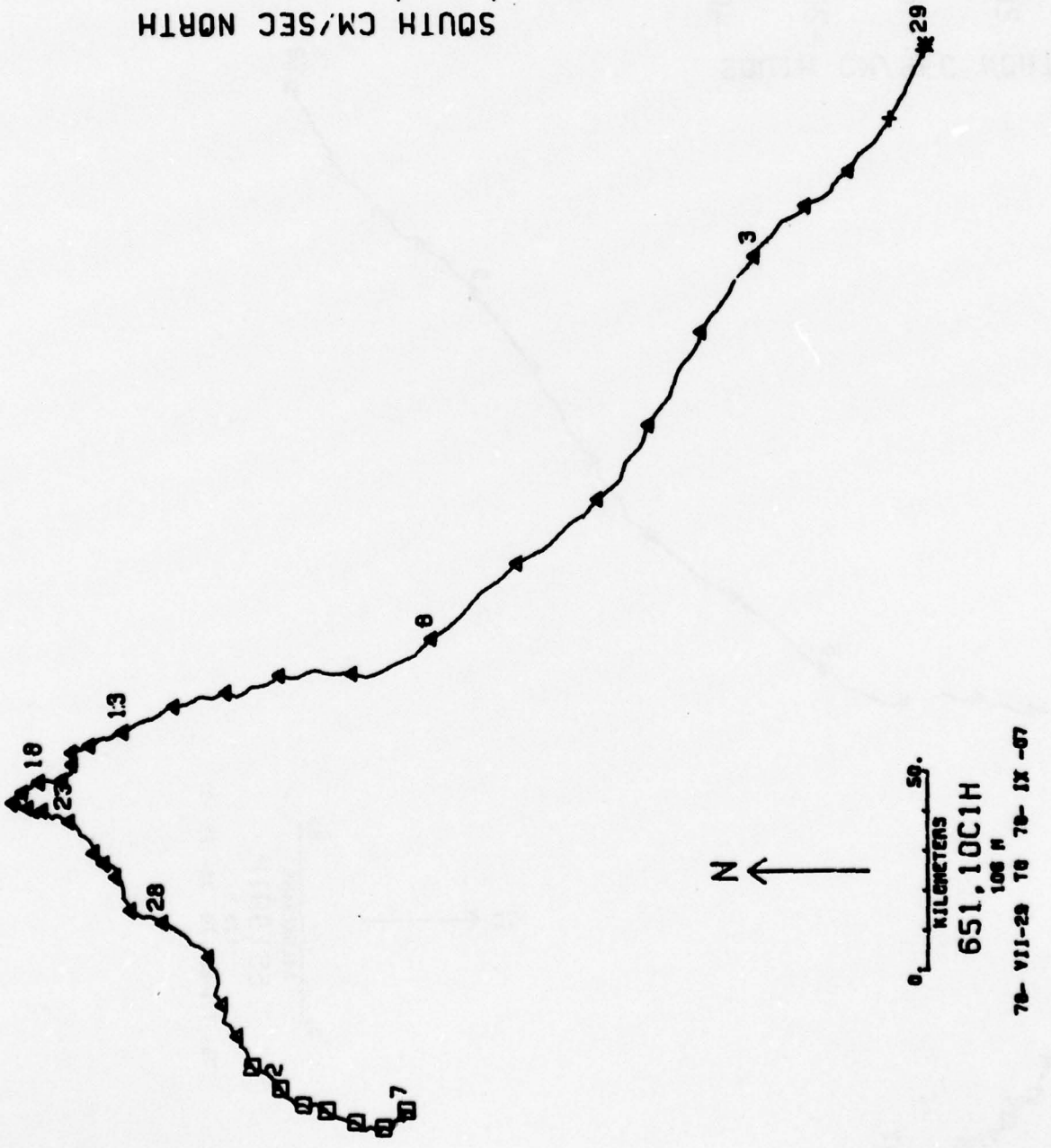


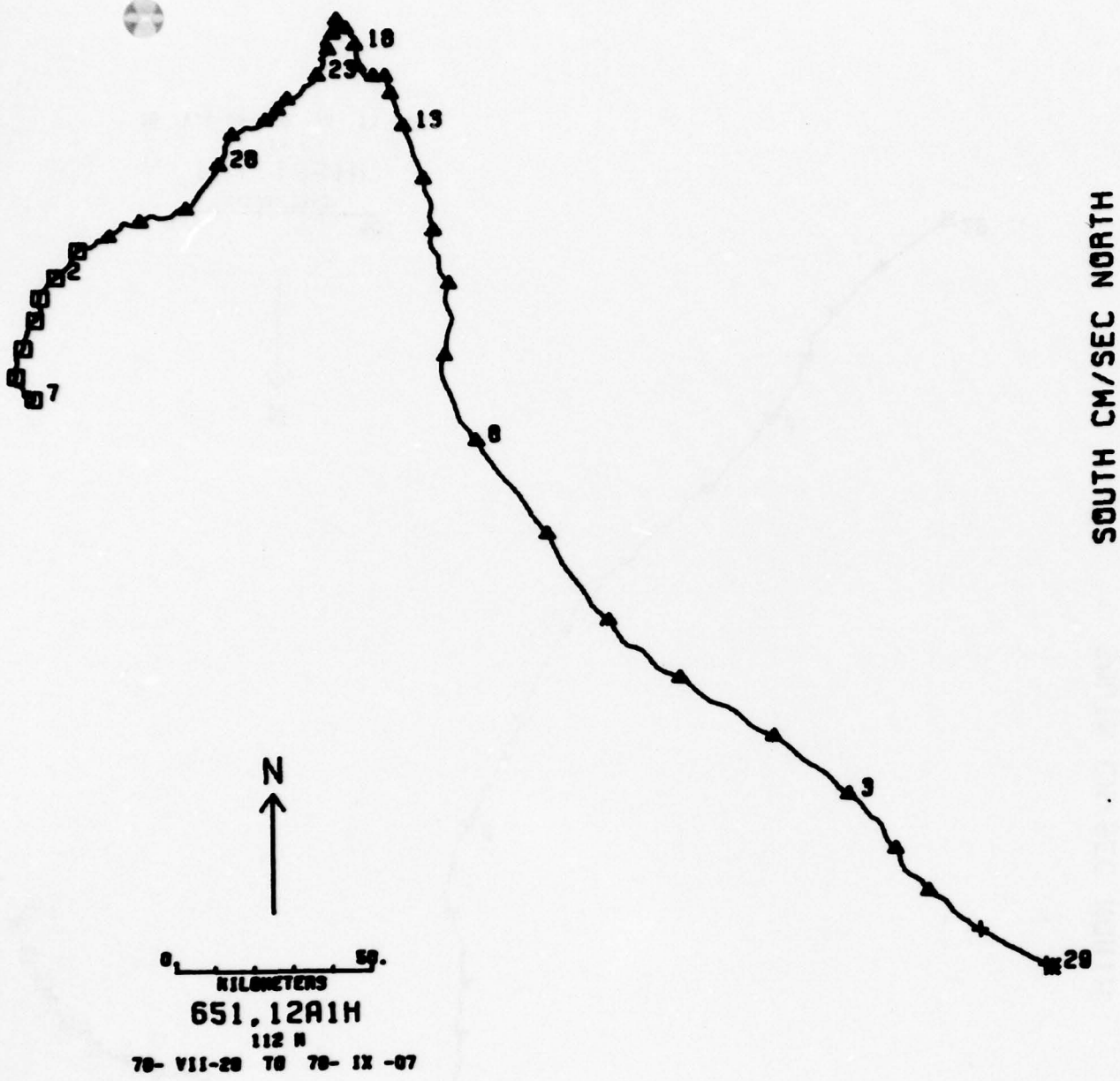

SOUTH CM/SEC NORTH
40
20
0
-20
-40
WEST CM/SEC EAST
30
0
-30

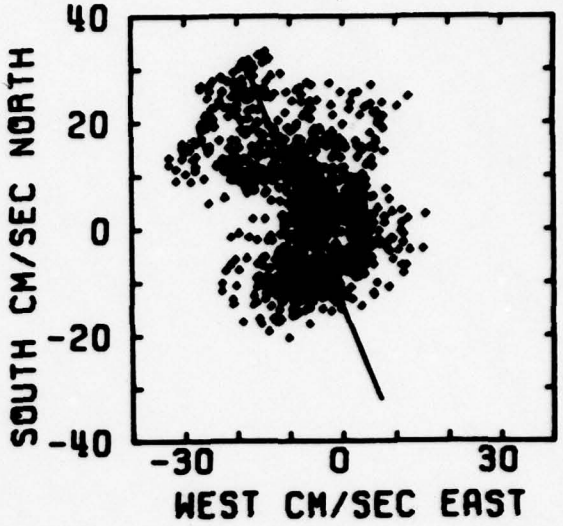

N
0
50.
KILOMETERS
6518A1H
100 M
78- VII-28 18 78- IX -07
1
3
8
13
18
23
28
29

SUBSURFACE MOORING/ 103 M./ DT-5109

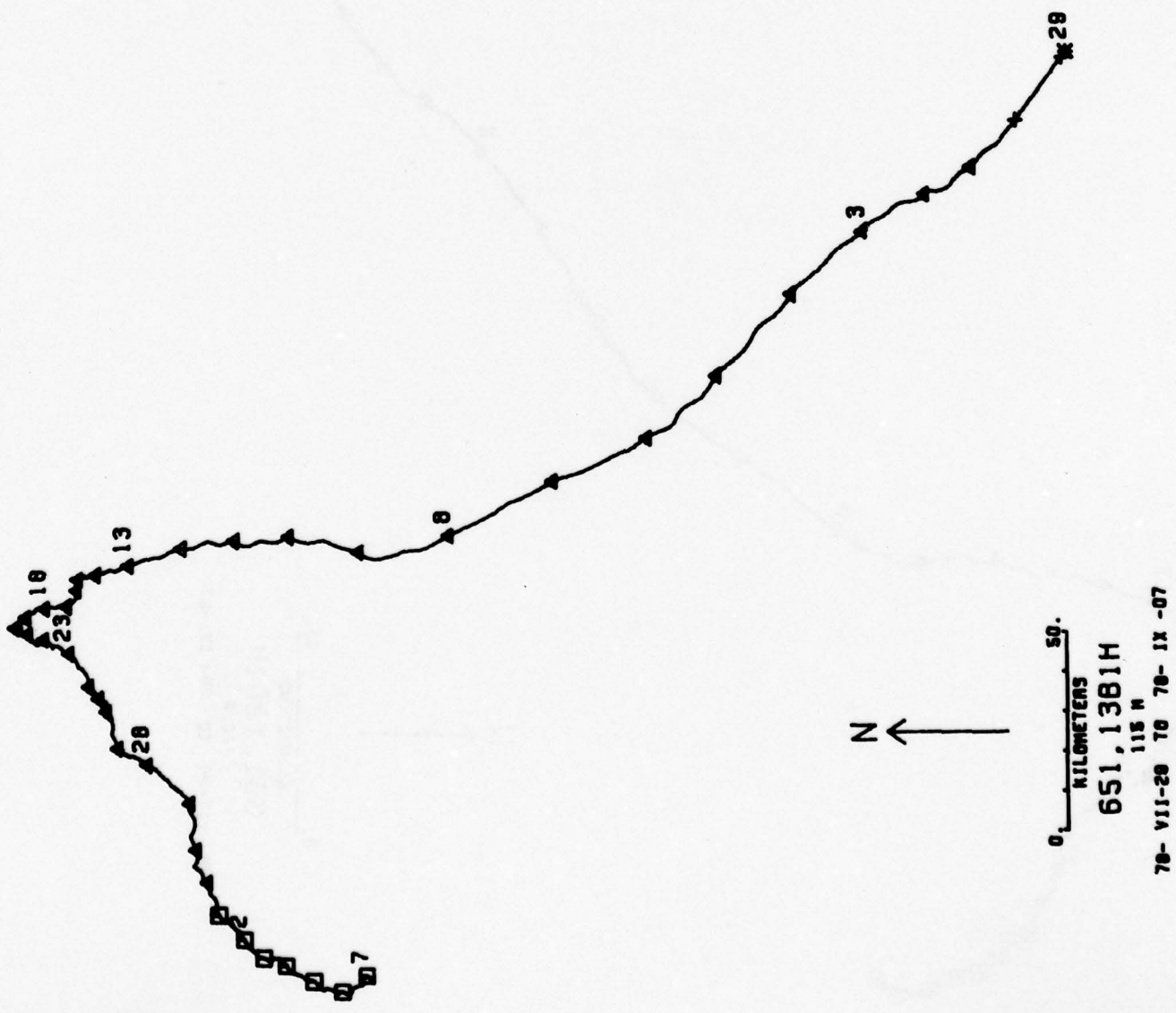

SOUTH CM/SEC NORTH
40
20
0
-20
-40
WEST CM/SEC EAST
30
0
-30

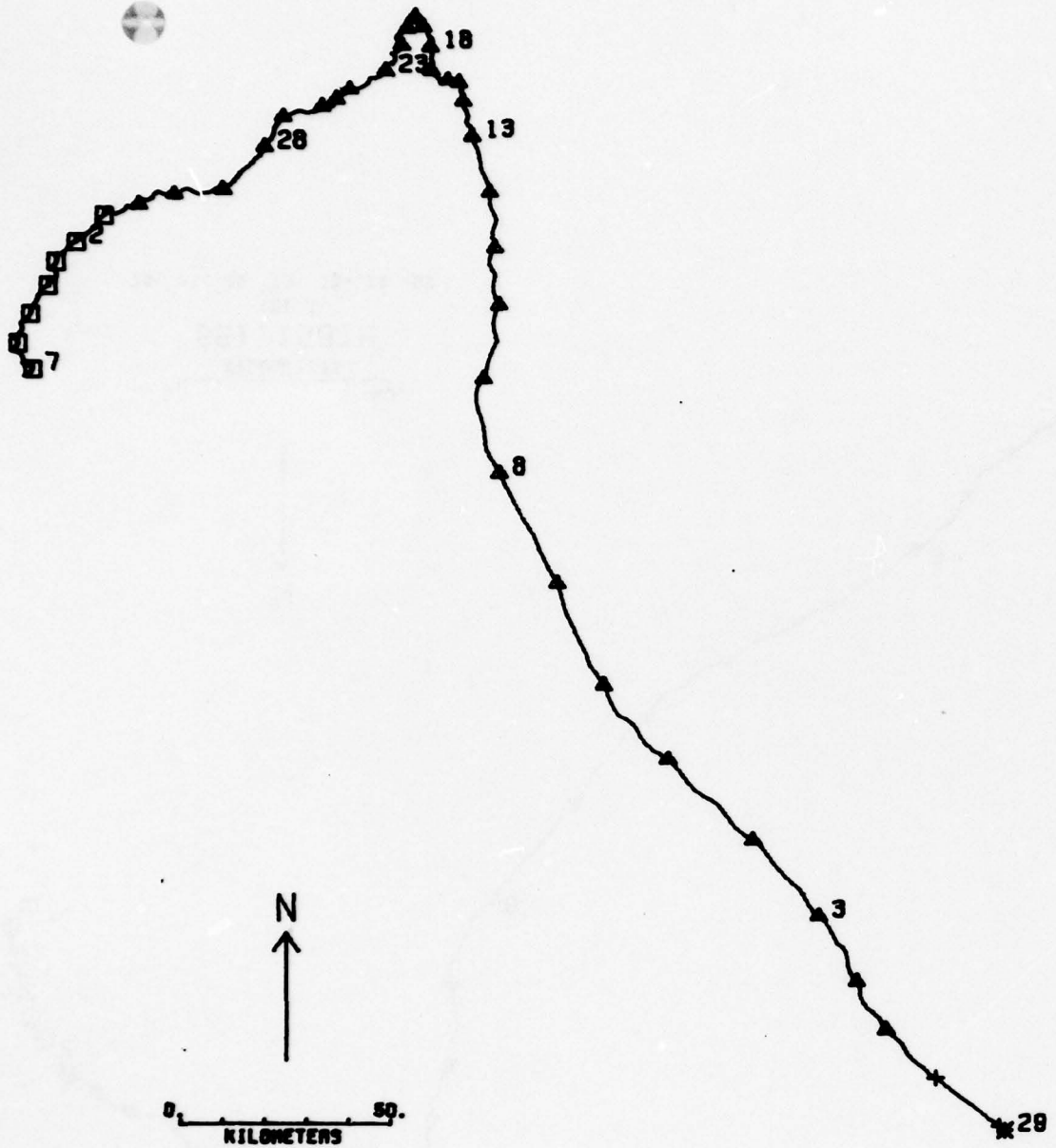

1
7
10
13
18
23
28
3
8
29
N
0
50.
KILOMETERS
651,10C1H
106 M
78- VII-28 TO 78- IX -07

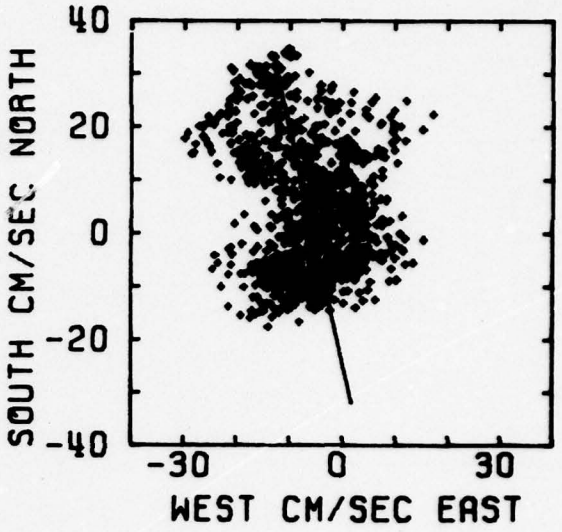




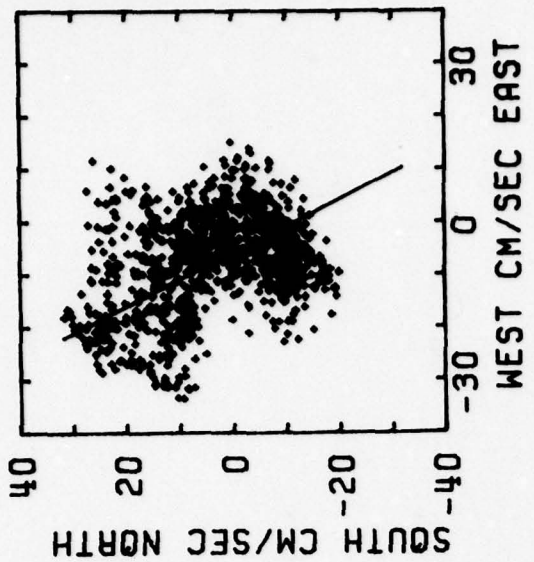
SUBSURFACE MOORING/ 112 M./ DT-5114

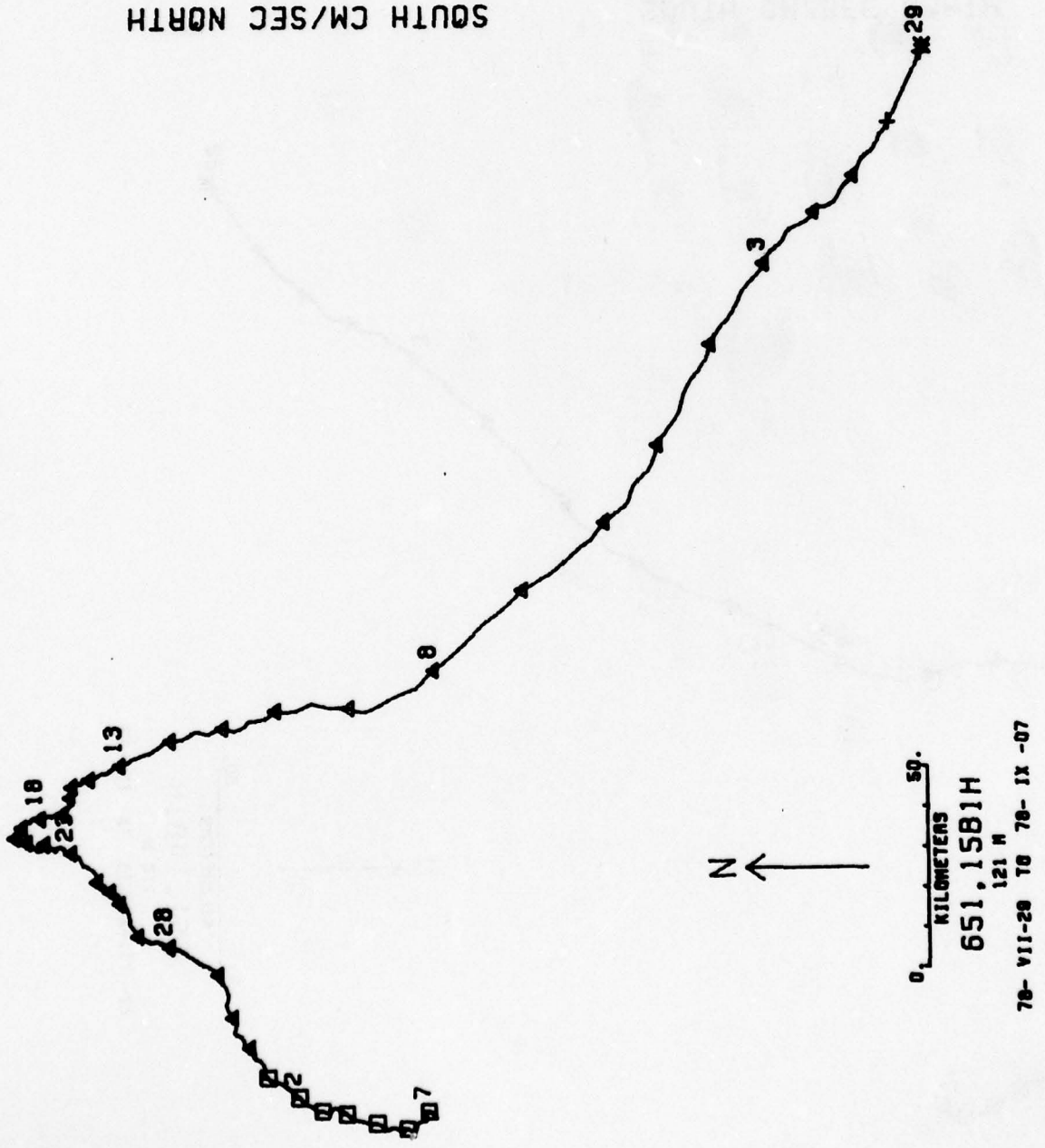

SUBSURFACE MOORING/ 115 M./ V-101
SOUTH CM/SEC NORTH
WEST CM/SEC EAST
40
20
0
-20
-40
30
0
-30
N
0
KILOMETERS
50.
651,1381H
115 M
78- VII-20 TO 78- IX -07
1
3
8
13
18
23
28
2
7
20



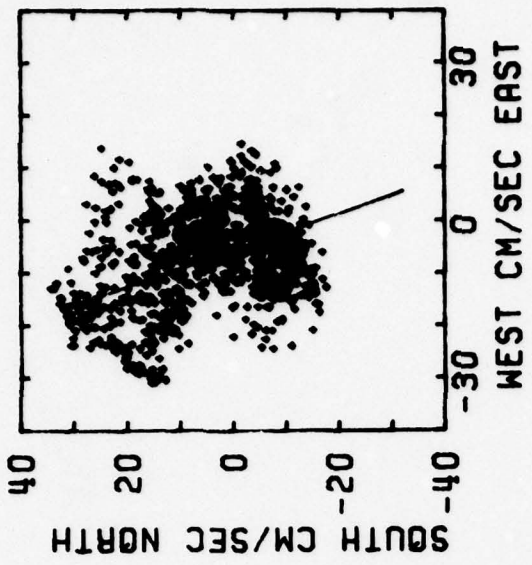


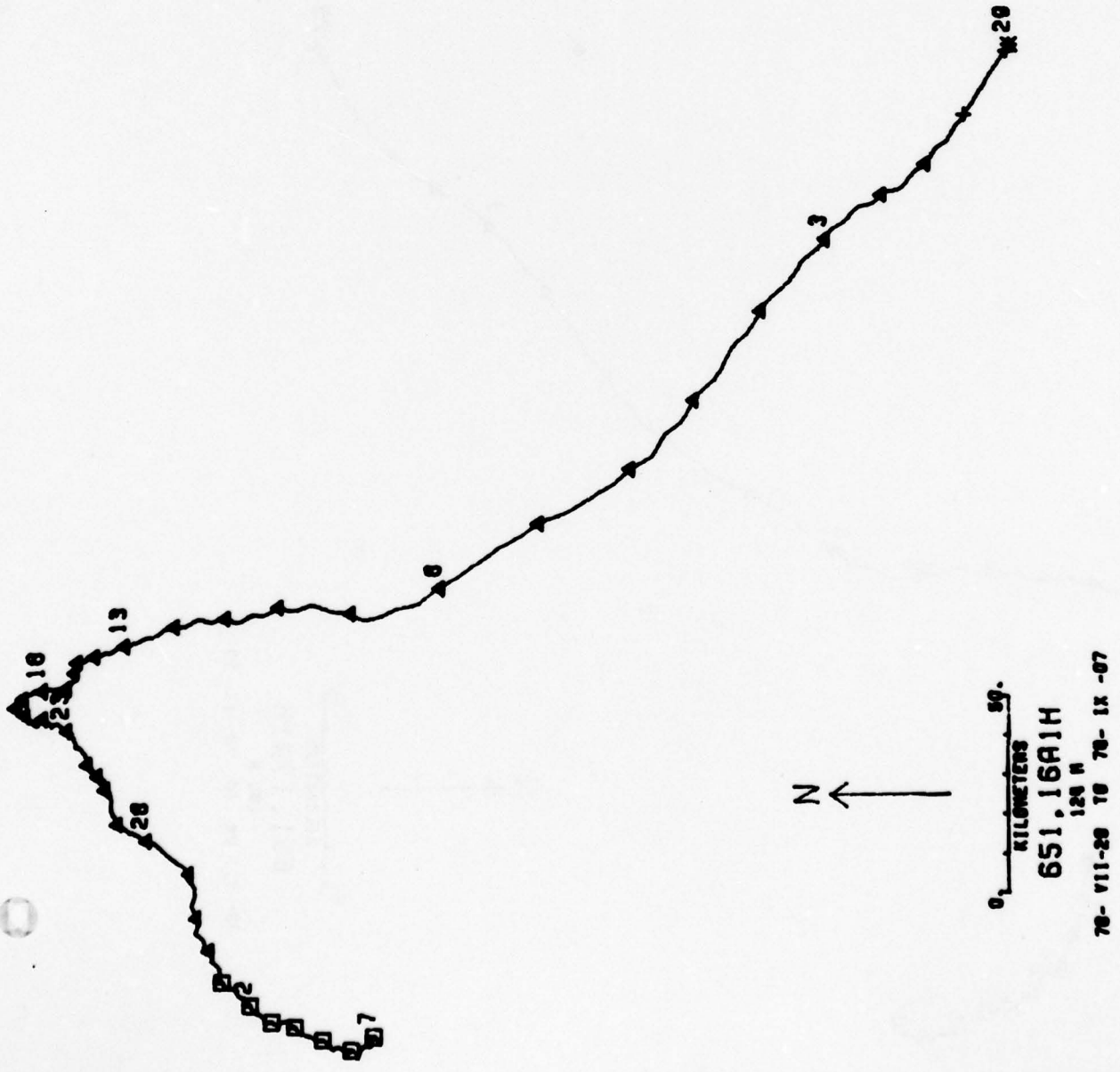
SUBSURFACE MOORING/ 118 M./ V-105

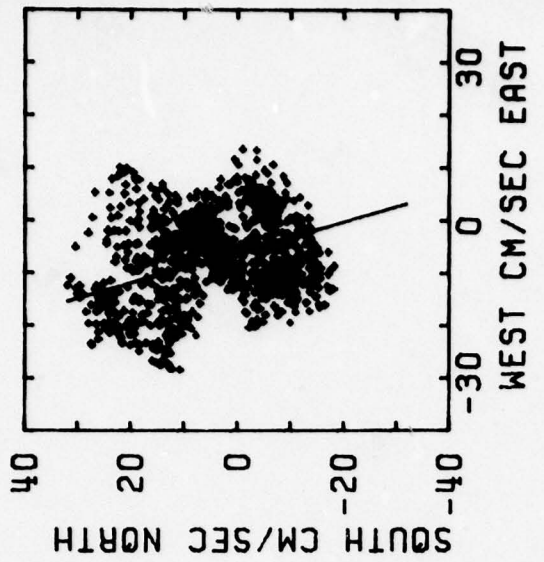

SOUTH CM/SEC NORTH
40
20
0
-20
-40
WEST CM/SEC EAST
30
0
-30

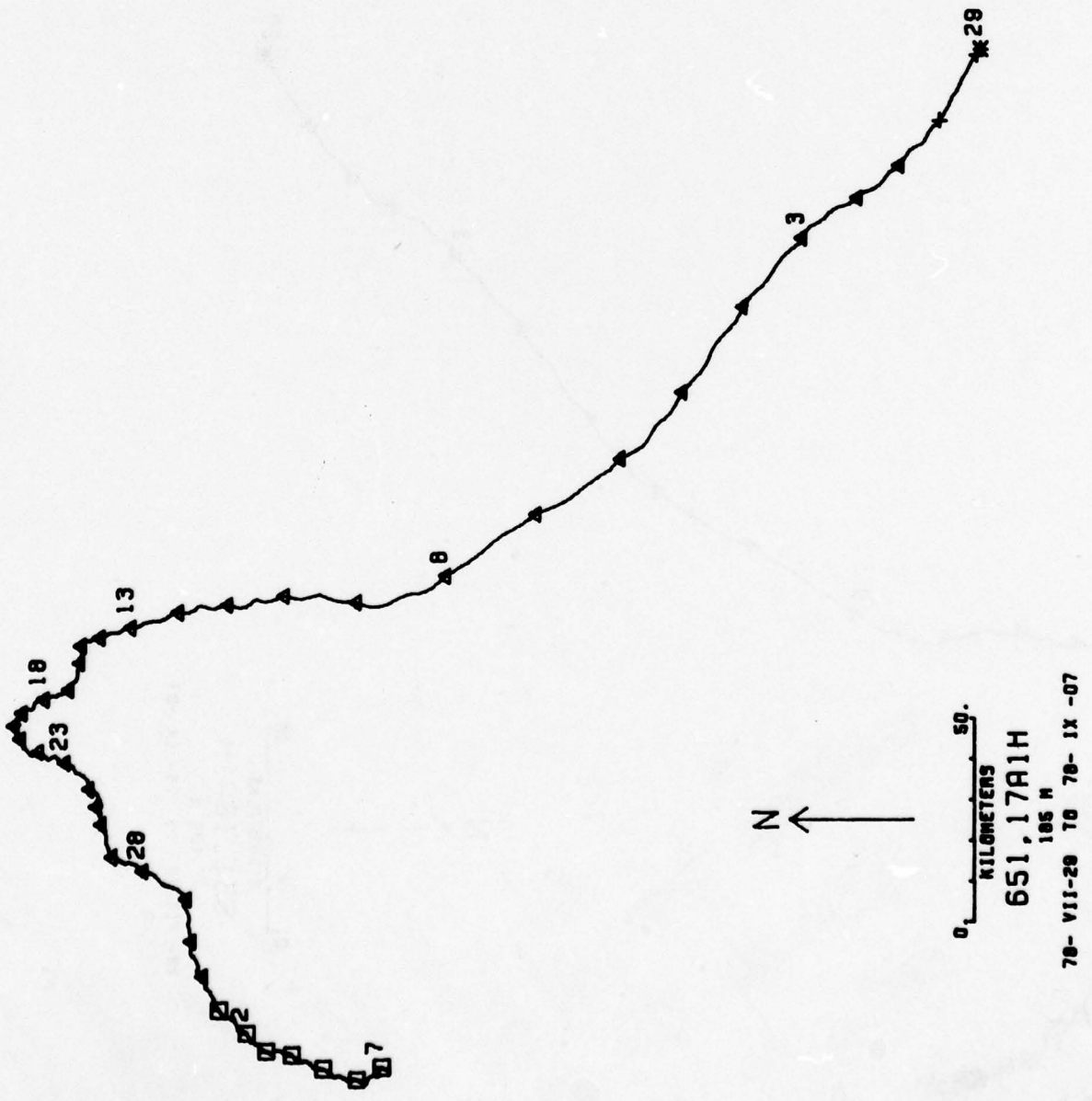

29
3
8
13
18
23
28
2
7
N
0
50.
KILOMETERS
651.15B1H
121 M
78- VII-28 TO 78- IX -07

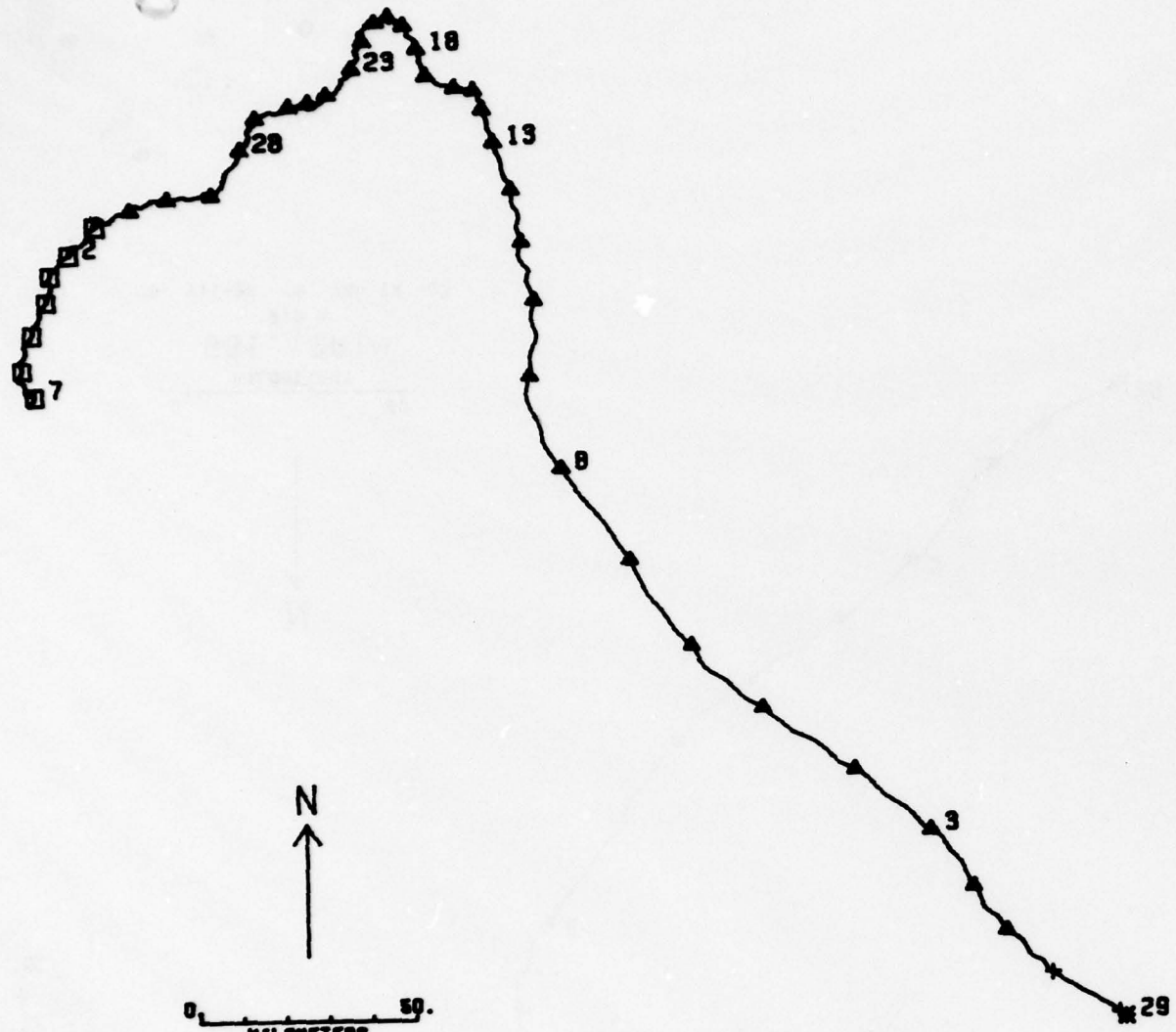
SUBSURFACE MOORING/ 124 M./ DT-5116

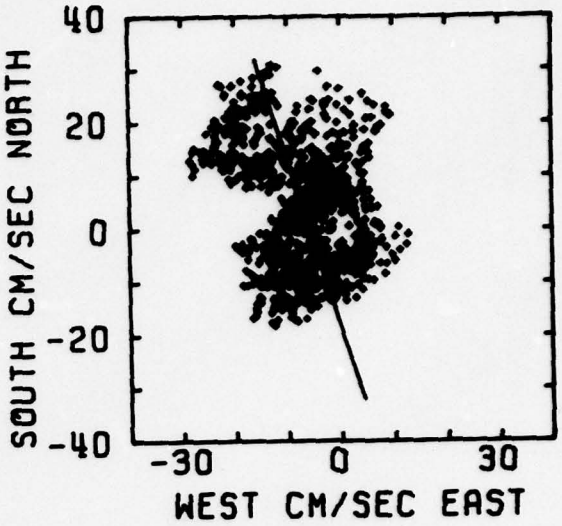




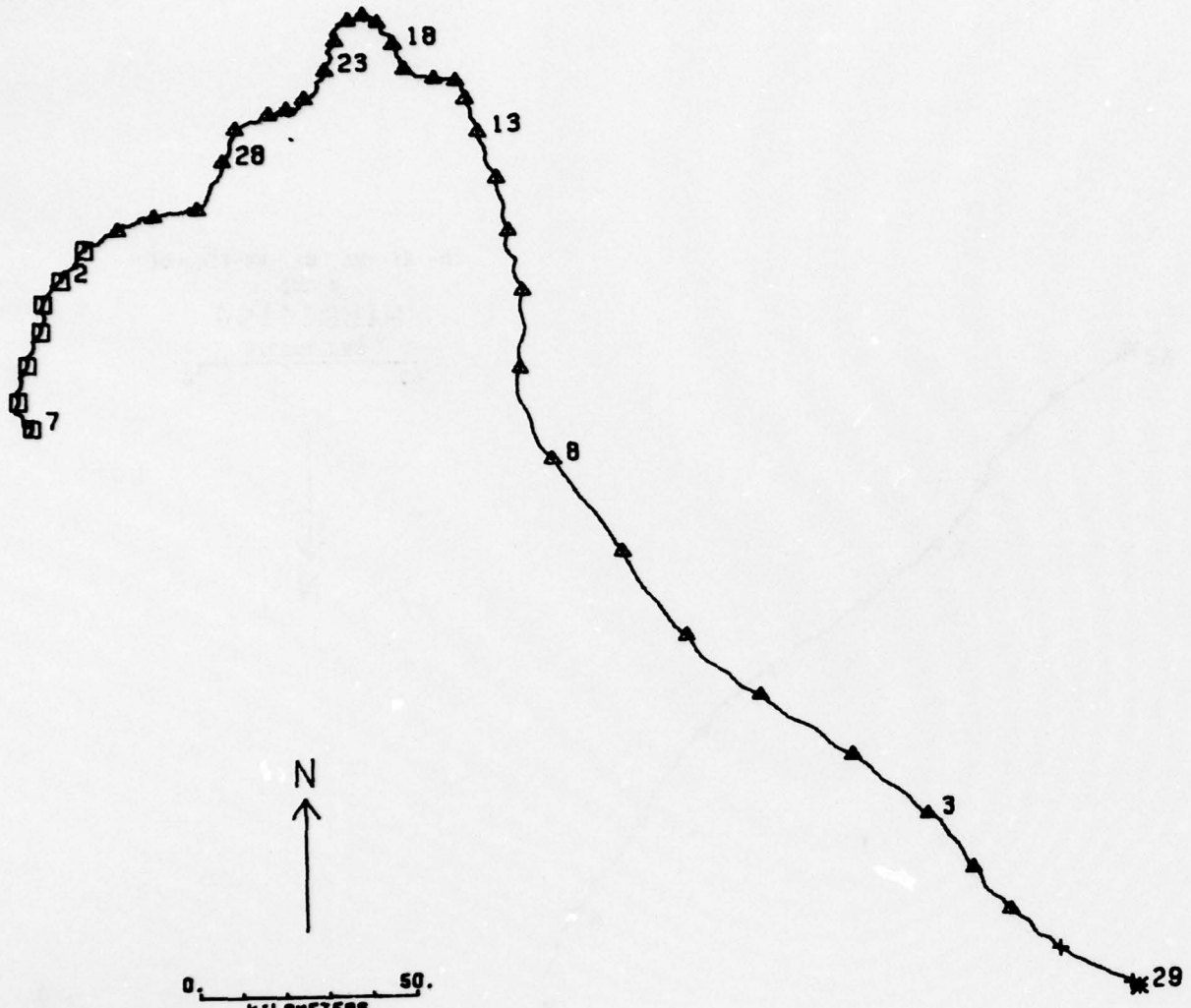

SOUTH CM/SEC NORTH
40
20
0
-20
-40
WEST CM/SEC EAST
30
0
-30

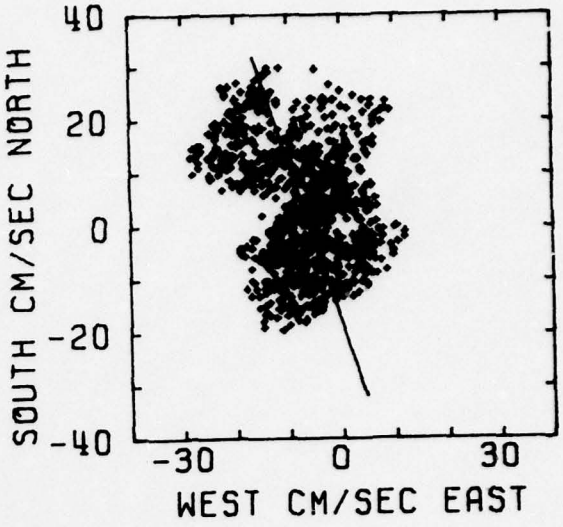

N
0
50.
KILOMETERS
651,17A1H
185 M
78- VII-20 TO 78- IX -07
1
2
3
7
8
13
18
23
28
28





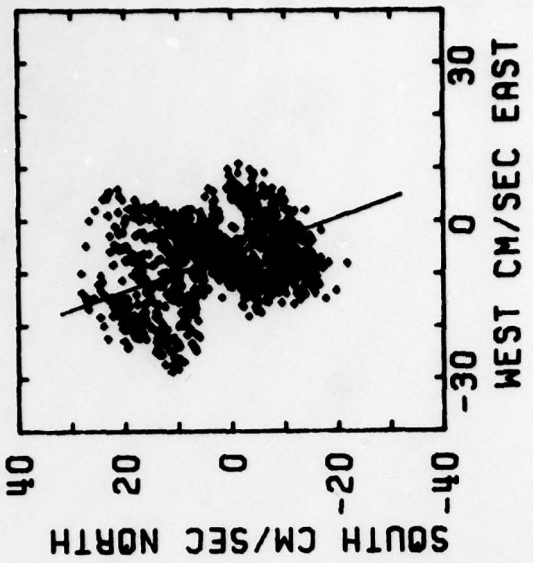
SUBSURFACE MOORING/ 200 M./ DT-5101

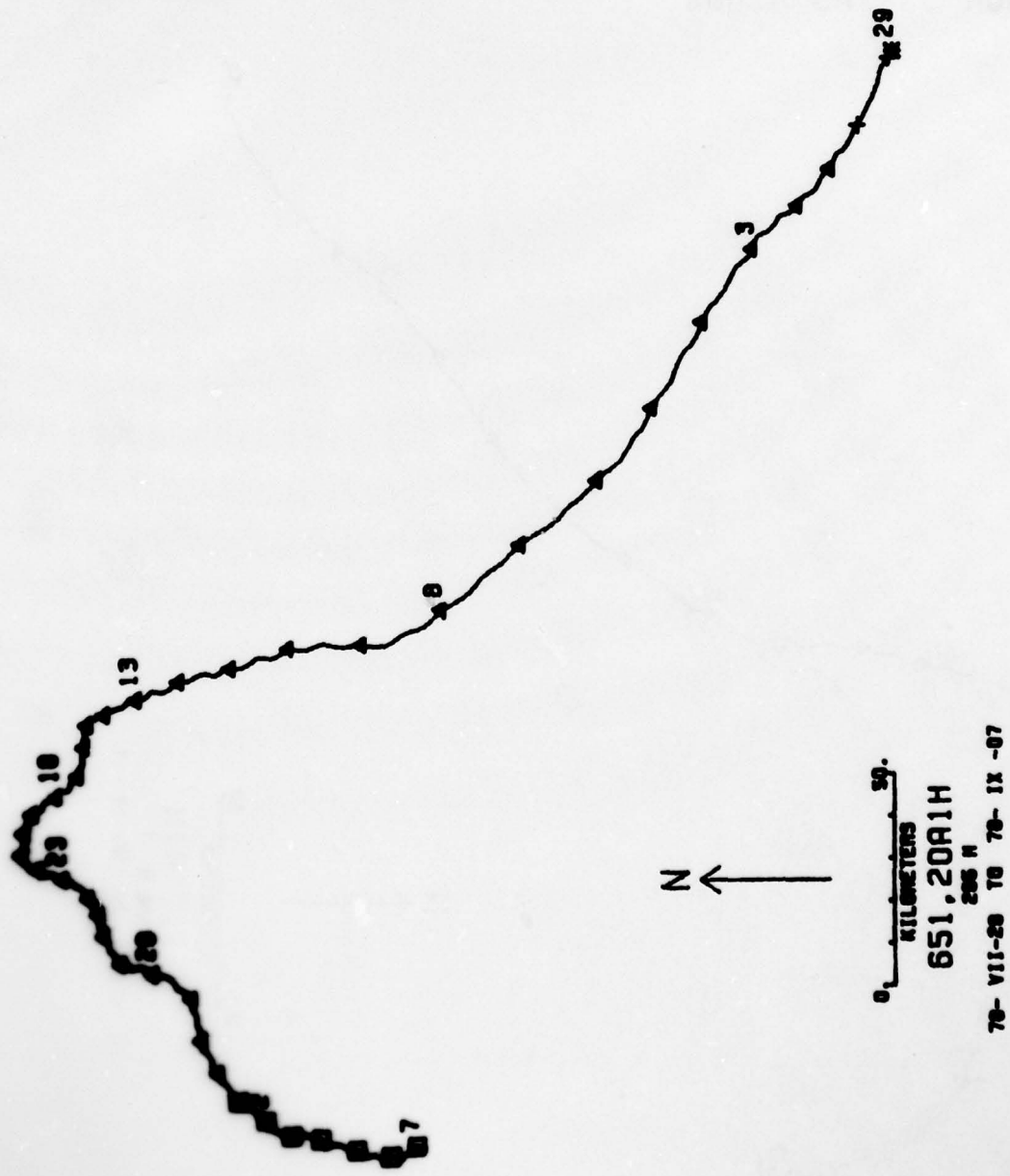




SUBSURFACE MOORING 210 M, V=431

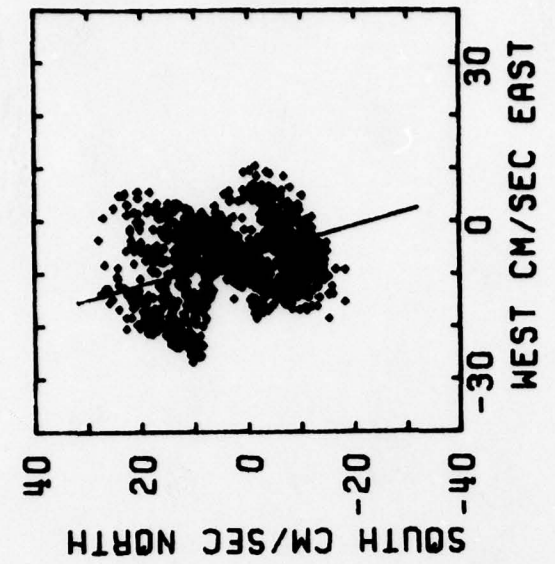
SUBSURFACE MOORING/ 295 M./ DY-5102





SUBSURFACE MOORING/ 300 M./ DT=5110

SUBSURFACE MOORING/ 310 M./ V-110P



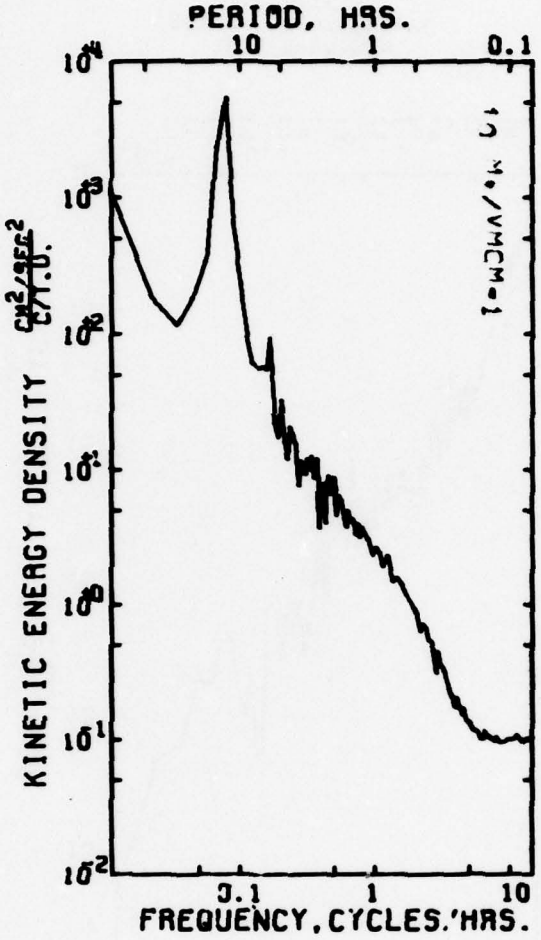
SUBSURFACE MARKING/ 1000 M./ DT=5105
40
20
0
-20
-40
SOUTH CM/SEC NORTH
30
0
-30
WEST CM/SEC EAST

29
3
8
13
18
23
28
N
0
50.
KILOMETERS
651,23C1H
1000 M
78- VII-28 TO 78- IX -07

- - - - - - - - - - - - - - - -

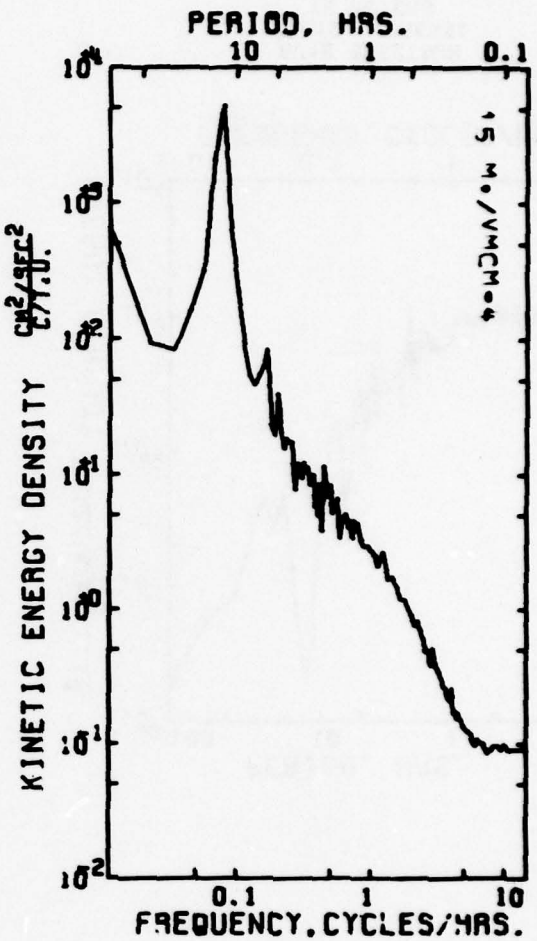
Note: position 6521 at 5m.
has speed variable only.

- - - - - - - - - - - - - - - -



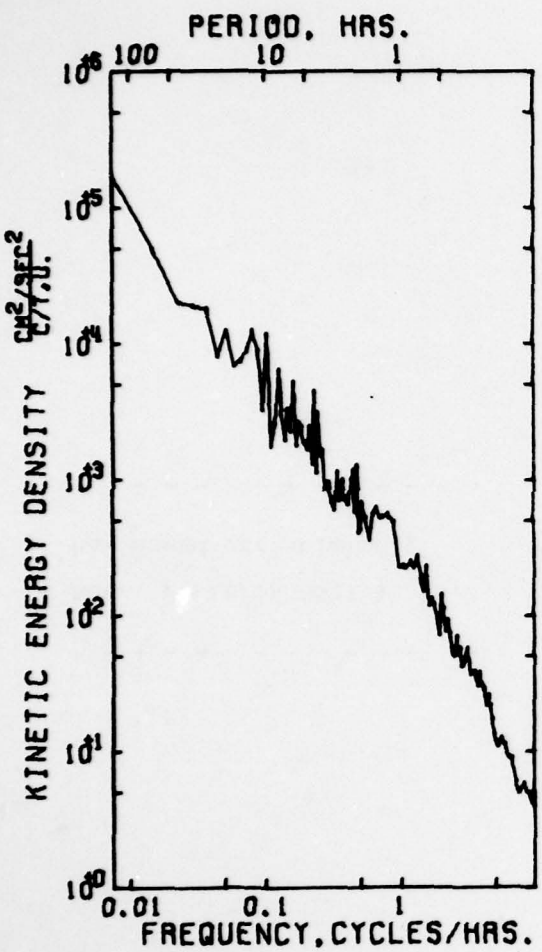
AUTO SPECTRUM
65228120A EAST COMP.
65228120A NORTH COMP.

78-VII-30 TO 78-IX-02
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

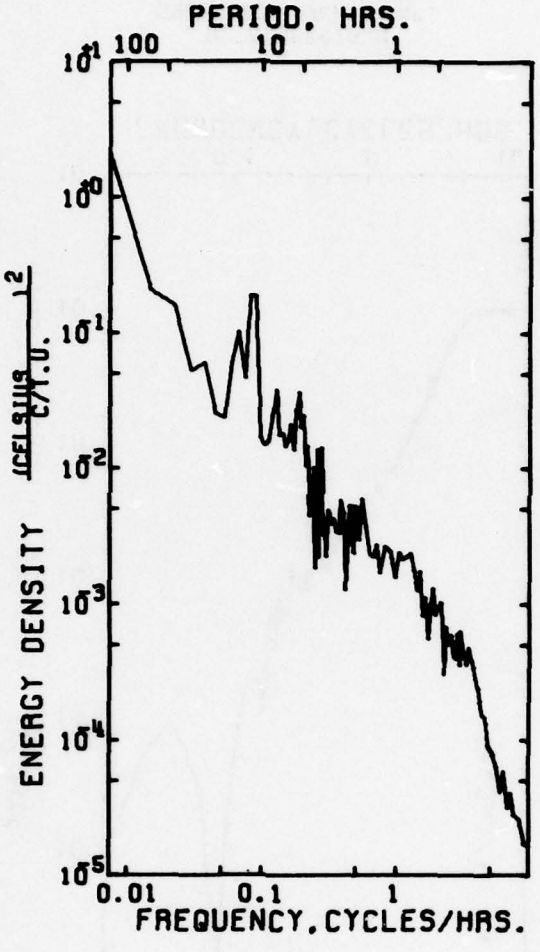


AUTO SPECTRUM
65238120A EAST COMP.
65238120A NORTH COMP.

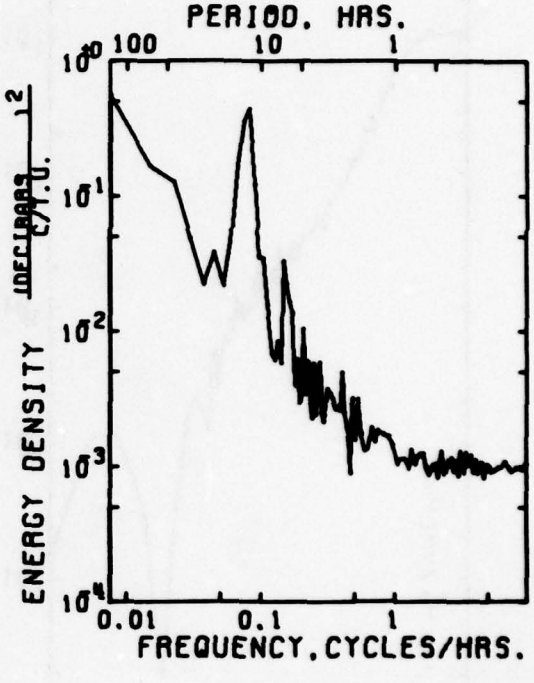
78-VII-30 TO 78-IX-02
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



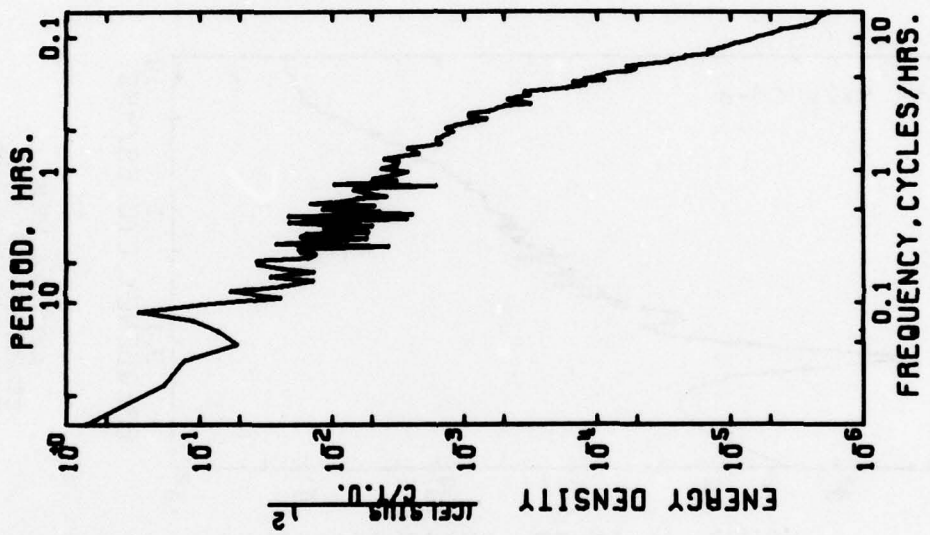
AUTO SPECTRUM
65310 EAST COMP.
65310 NORTH COMP.
15 METERS
78-VII-21 TO 78-IX-09
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

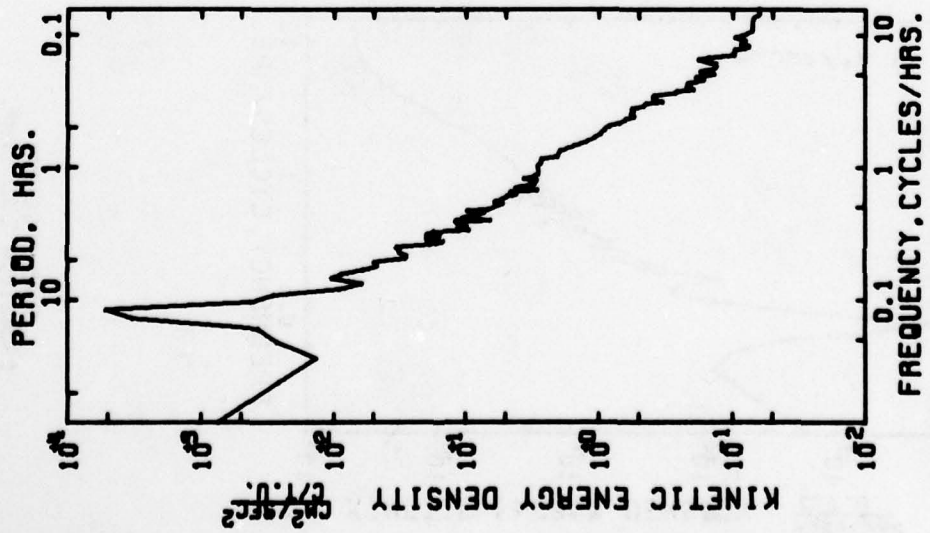


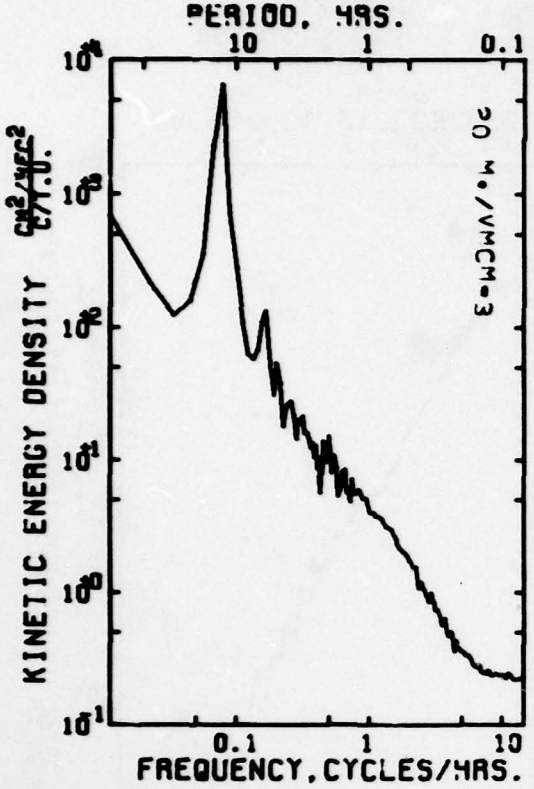
AUTO SPECTRUM
65310 TEMPERATURE
15 METERS
78-VII-31 TO 78-IX-02
2 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



AUTO SPECTRUM
65310 PRESSI
15 METERS
78-VII-31 TO 78-IX-02
2 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

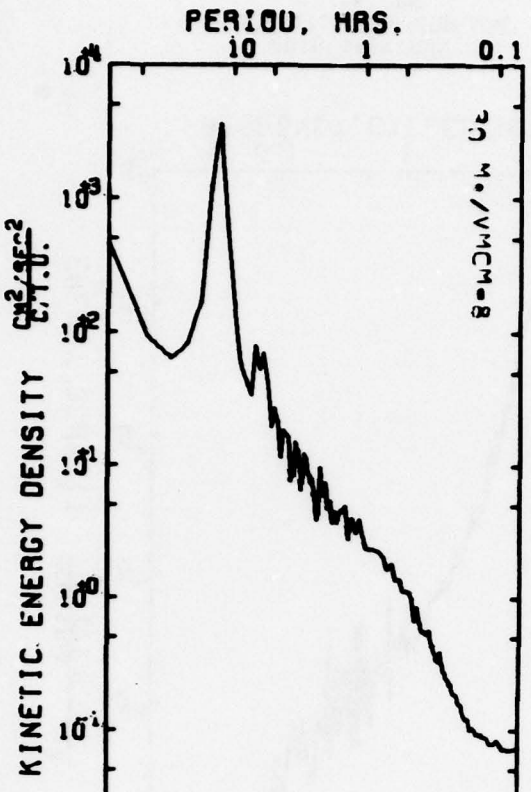

ENERGY DENSITY
PERIOD. HRS.
FREQUENCY, CYCLES/HRS.
AUTO SPECTRUM
65328112.5 TEMPERATURE
17 METERS
78-VII-31 TO 78-VIII-31
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS


KINETIC ENERGY DENSITY
PERIOD. HRS.
FREQUENCY, CYCLES/HRS.
AUTO SPECTRUM
65328112.5 EAST
65328112.5 NORTH
17 METERS
78-VII-31 TO 78-VIII-31
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



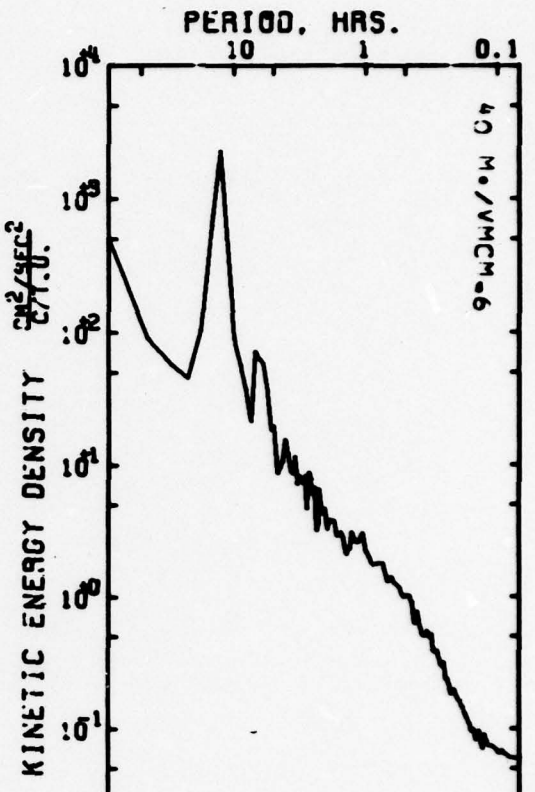
AUTO SPECTRUM
65248120A EAST COMP.
65248120A NORTH COMP.

78-VII-30 TO 78-IX-C2
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



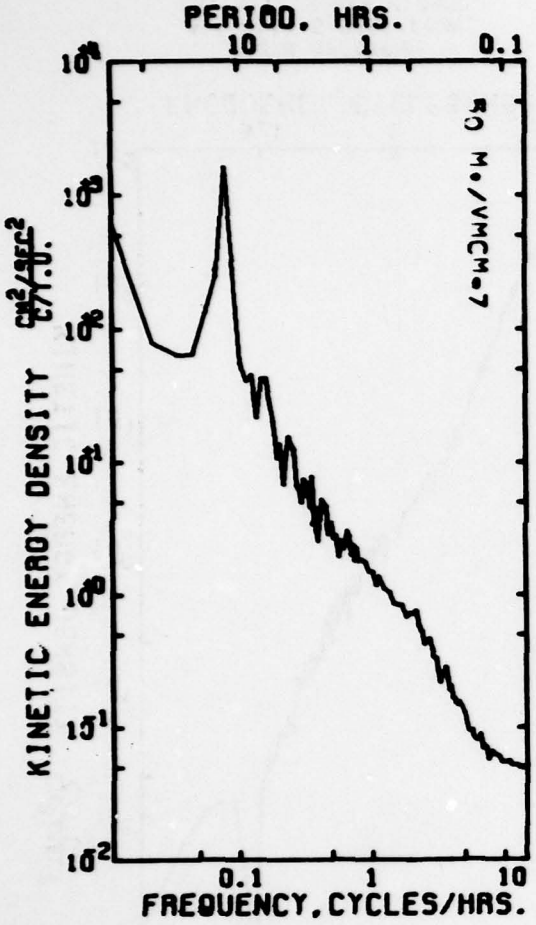
AUTO SPECTRUM
65258120A EAST COMP.
65258120A NORTH COMP.

78-VII-30 TO 78-IX-C2
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



AUTO SPECTRUM
65268120A EAST COMP.
65268120A NORTH COMP.

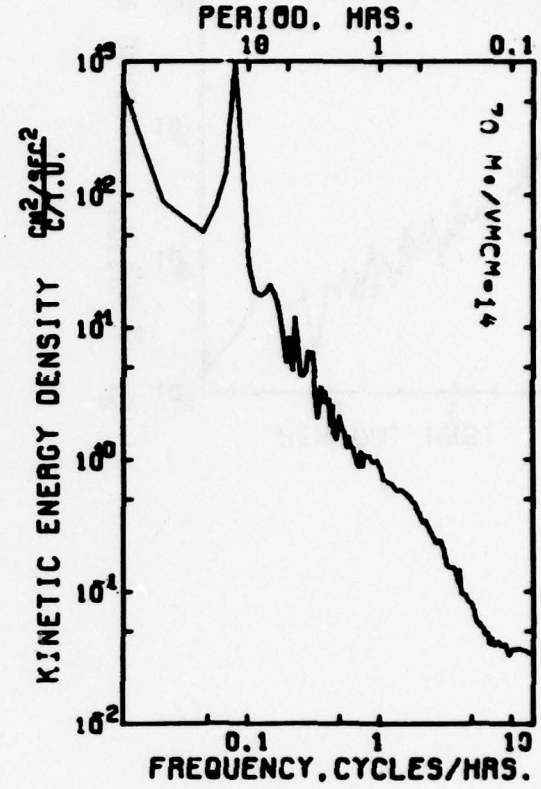
78-VII-30 TO 78-IX-02
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



AUTO SPECTRUM
65278120A EAST COMP.
65278120A NORTH COMP.

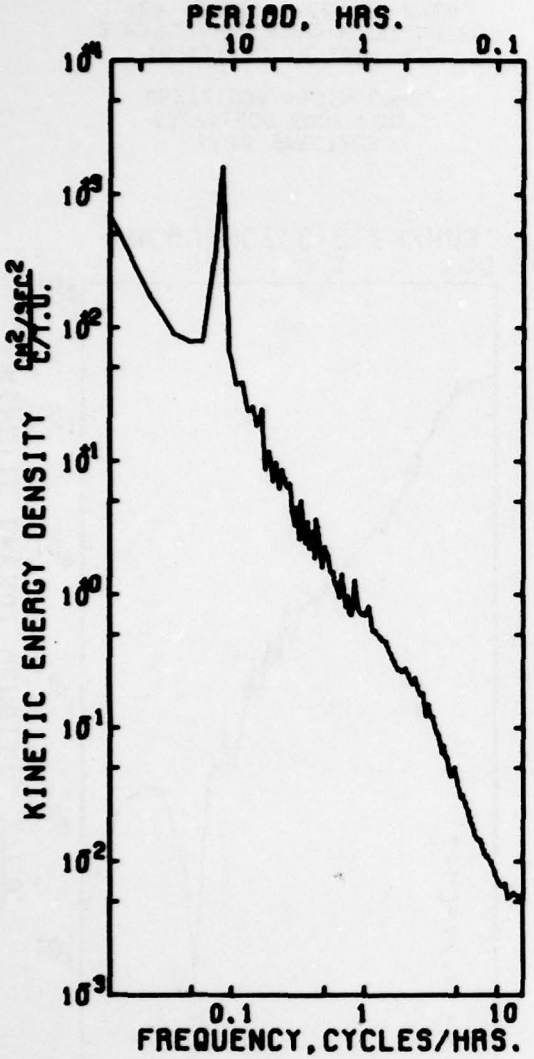
78-VII-30 TO 78-IX-02
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

Note: position 6528 at 60m.
has no data.

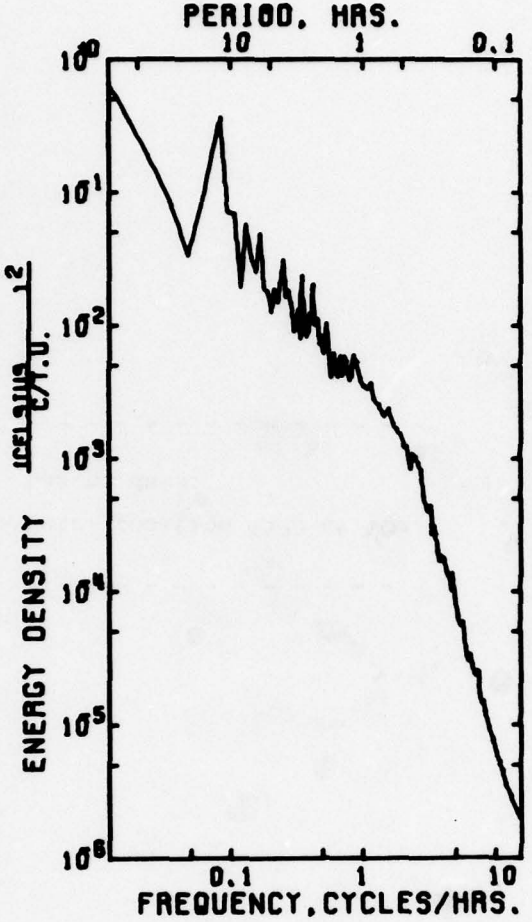


AUTO SPECTRUM
65298120A EAST COMP.
65298120A NORTH COMP.

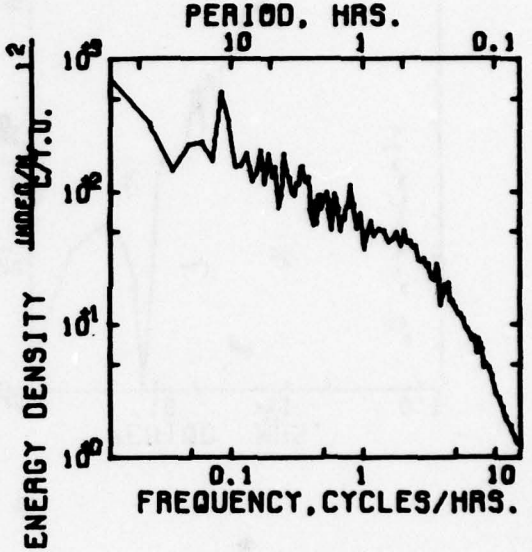
78-VII-30 TO 78-IX-02
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



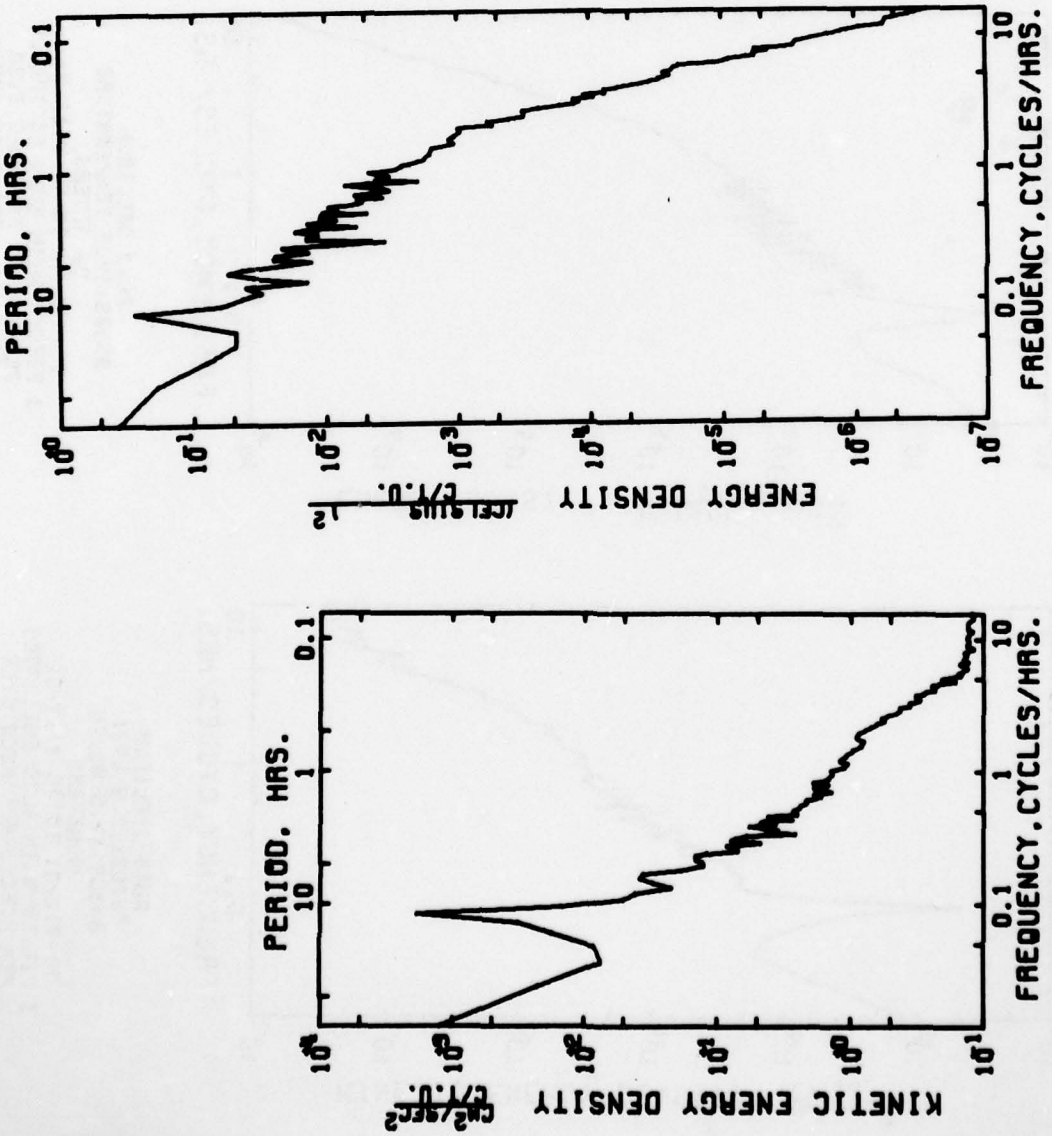
AUTO SPECTRUM
6511A112.5 EAST COMP.
6511A112.5 NORTH COMP.
79 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

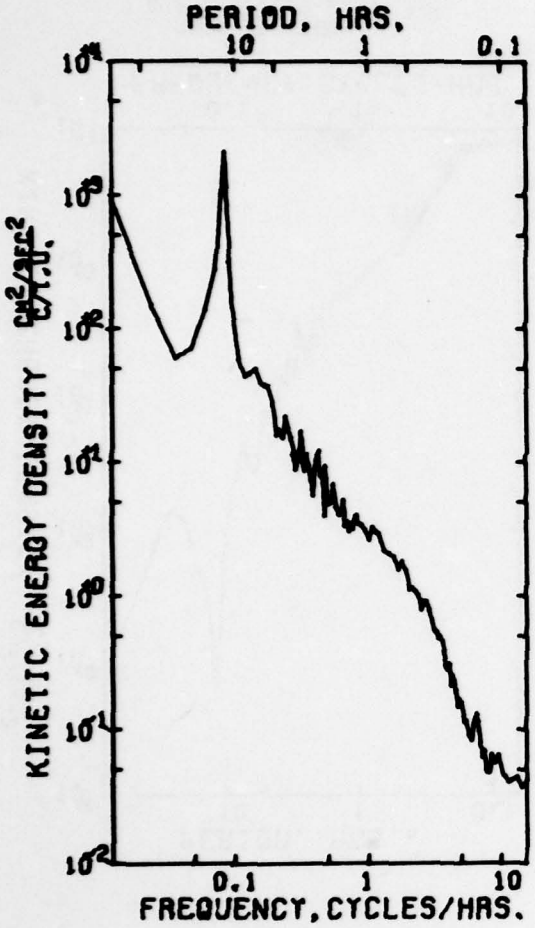


AUTO SPECTRUM
6511A112.5 TEMPERATURE
79 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

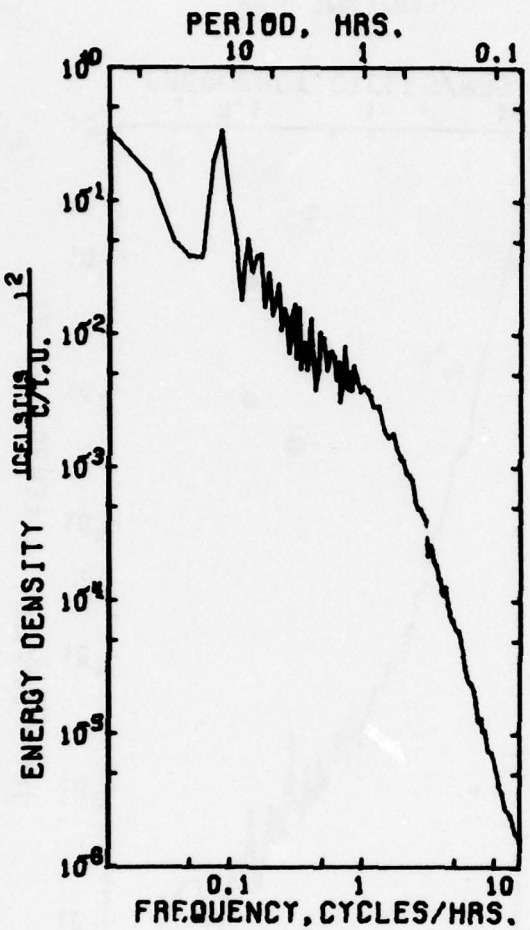


AUTO SPECTRUM
6511A112.5 TDIF
79 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

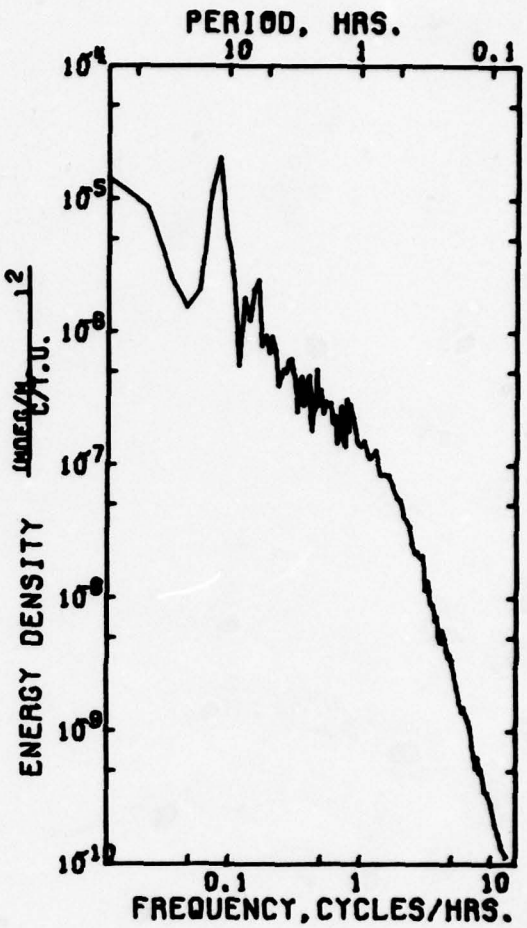

KINETIC ENERGY DENSITY
CM²/SEC²
C/I.U.
PERIOD. HRS.
FREQUENCY, CYCLES/HRS.
AUTO SPECTRUM
852.10A112.5 EAST
852.10A112.5 NORTH
79 METERS
78-VII-30 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS
ENERGY DENSITY
M²/SEC²
C/I.U.
PERIOD. HRS.
FREQUENCY, CYCLES/HRS.
AUTO SPECTRUM
852.10A112.5 TEMPERATURE
79 METERS
78-VII-30 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



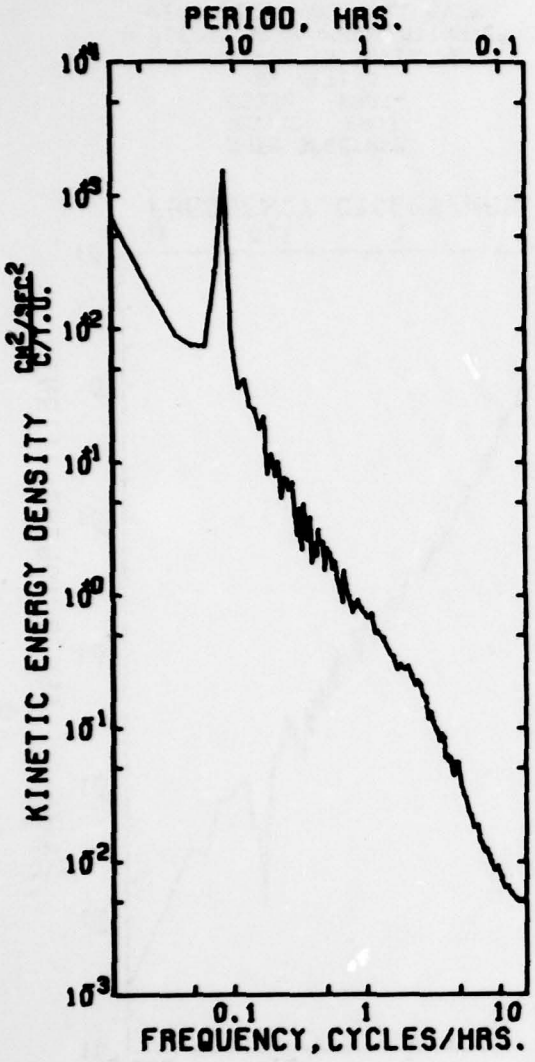
AUTO SPECTRUM
85368112.5 EAST
85368112.5 NORTH
79 METERS
78-VII-31 TO 78-VIII-31
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



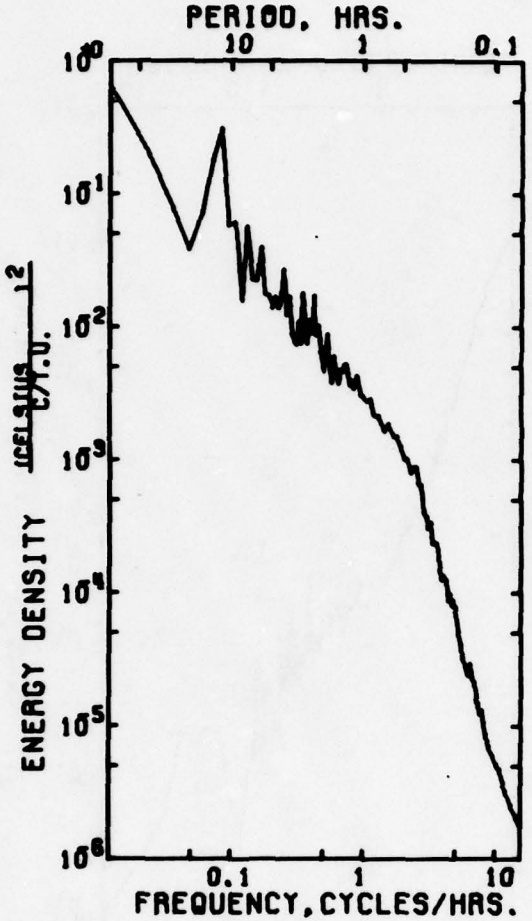
AUTO SPECTRUM
85368112.5 TEMPERATURE
79 METERS
78-VII-31 TO 78-VIII-31
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



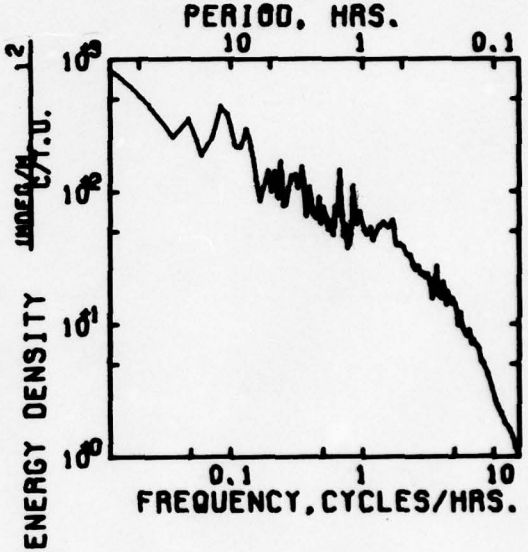
AUTO SPECTRUM
85368112.5 TDIF
79 METERS
78-VII-31 TO 78-VIII-31
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



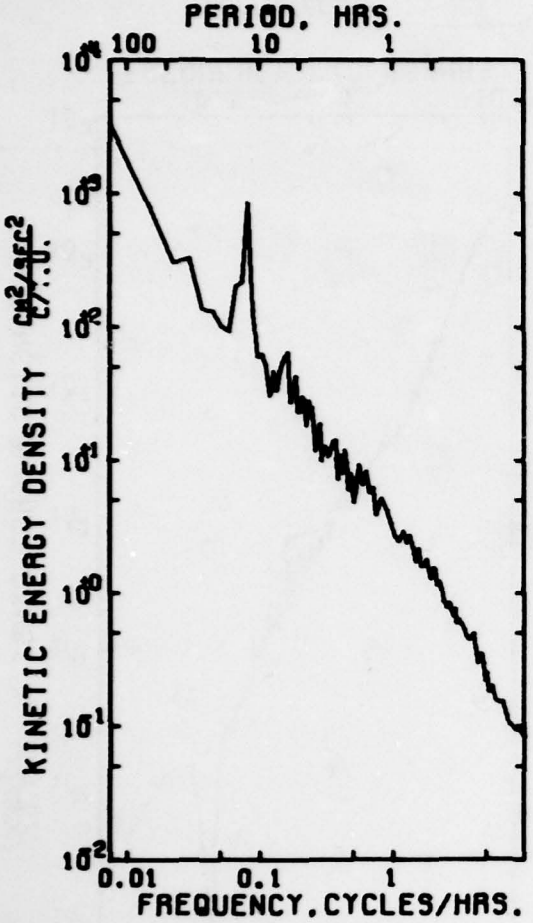
AUTO SPECTRUM
6512C112.5 EAST COMP.
6512C112.5 NORTH COMP.
82 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



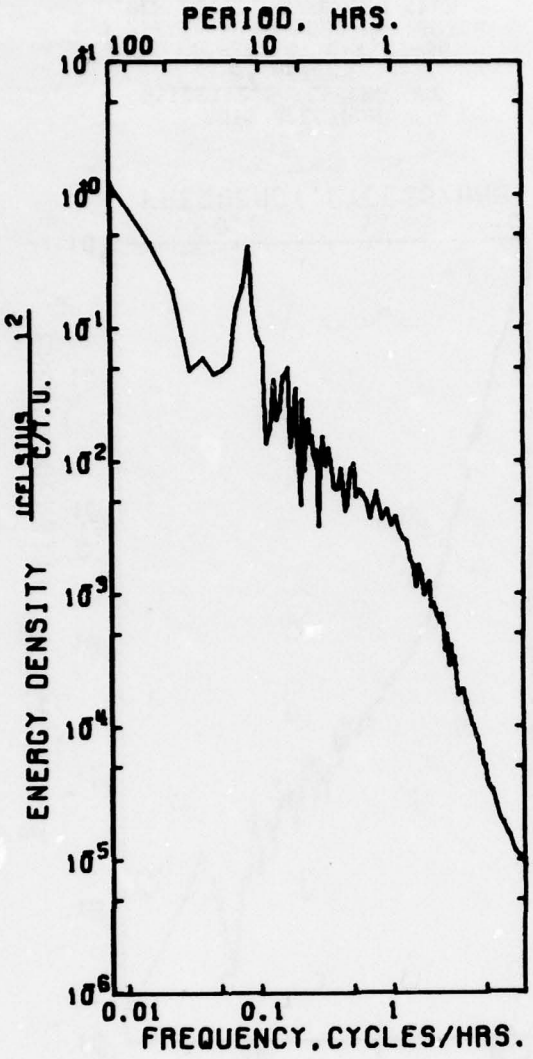
AUTO SPECTRUM
6512C112.5 TEMPERATURE
82 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



AUTO SPECTRUM
6512C112.5 TDIF
82 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



AUTO SPECTRUM
65370 EAST
65370 NORTH
82 METERS
78-VII-21 TO 78-IX-26
4 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

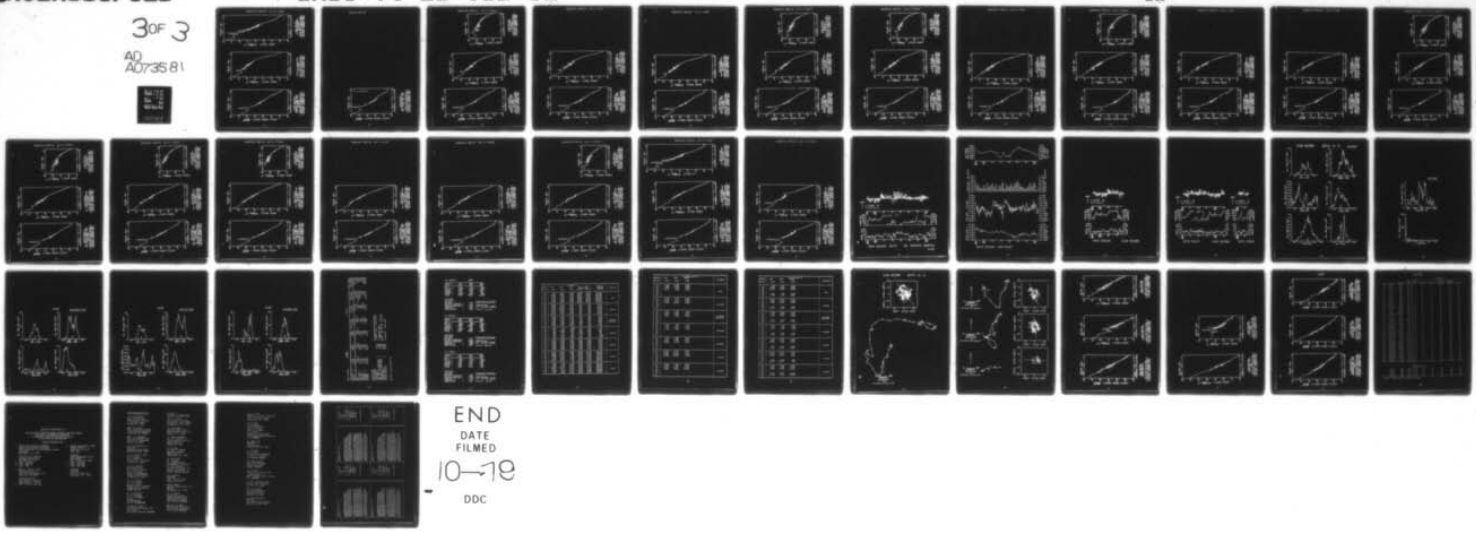


AUTO SPECTRUM
65370 TEMPERATURE
82 METERS
78-VII-31 TO 78-IX-02
2 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

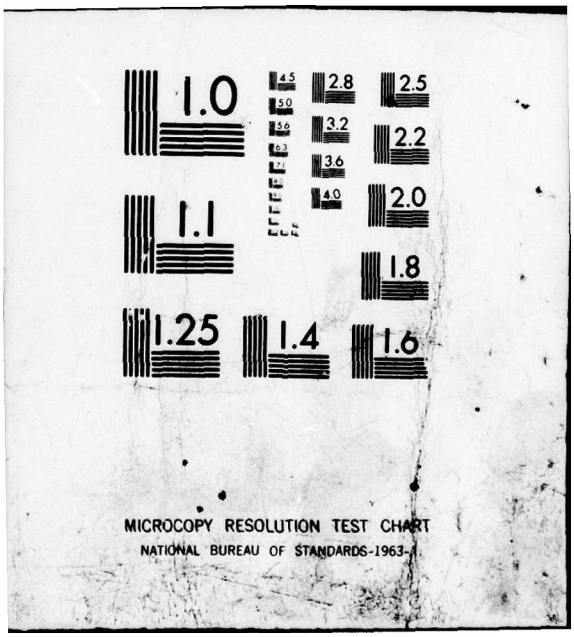
AD-A073 581 WOODS HOLE OCEANOGRAPHIC INSTITUTION MASS F/G 8/10
A COMPILATION OF MOORED CURRENT METER AND WIND RECORDER DATA. V--ETC(U)
JUL 79 S TARBELL, M G BRISCOE, R A WELLER N00014-76-C-0197

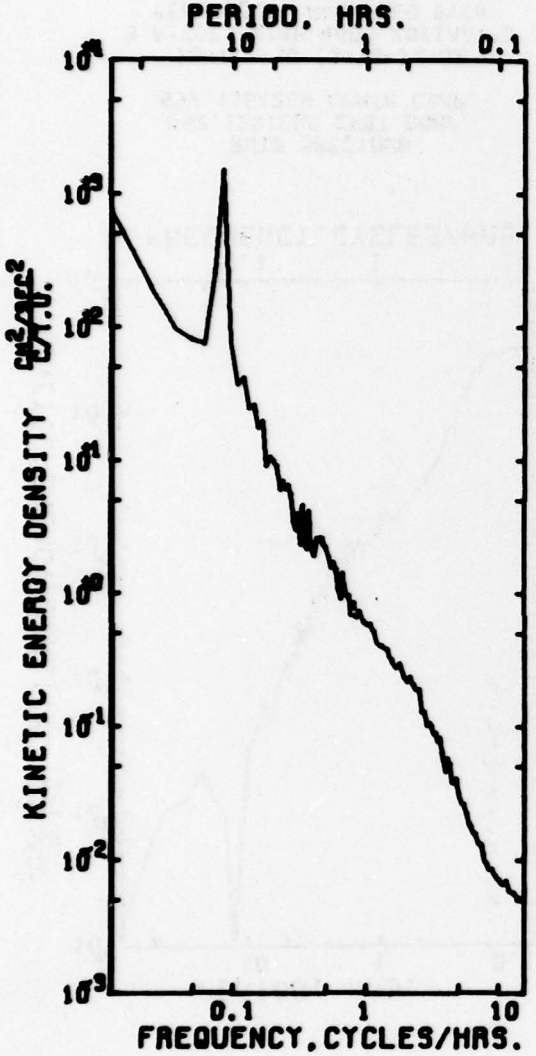
UNCLASSIFIED WHOI-79-65-VOL-1a NL

3 OF 3
AD
A073581

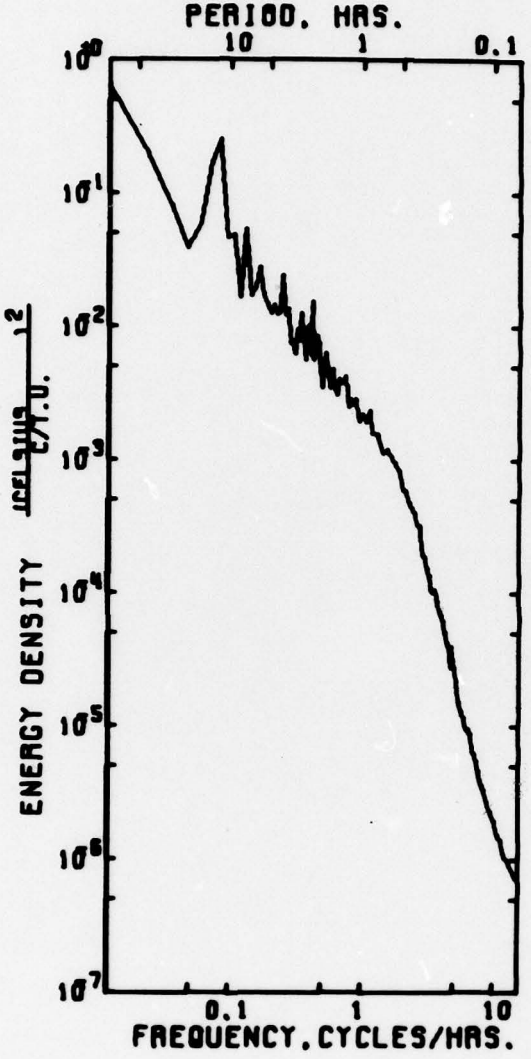


END
DATE
FILMED
10-79
DDC

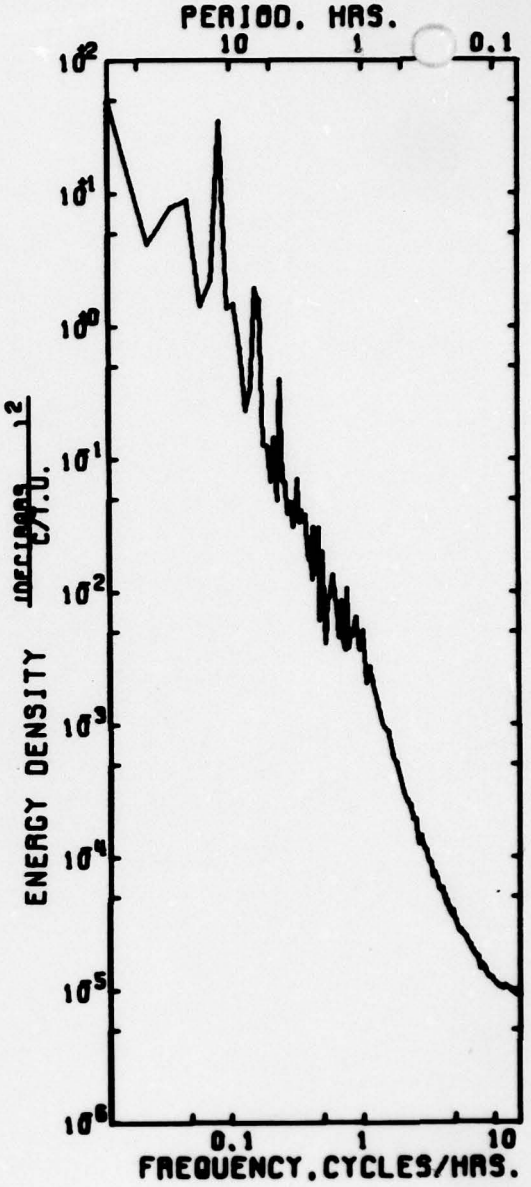

1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
4.5
5.0
5.6
6.3
7.1
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A



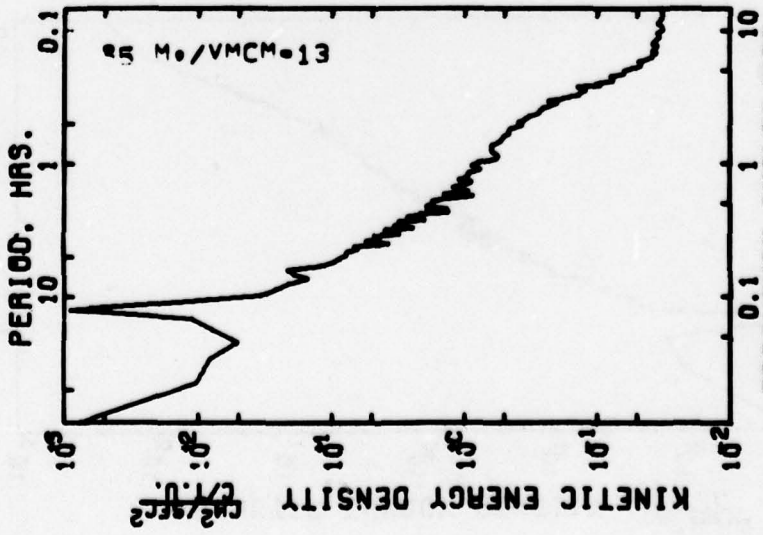
AUTO SPECTRUM
85138112.5 EAST COMP.
85138112.5 NORTH COMP.
85 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



85138112.5 TEMPERATURE
85 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

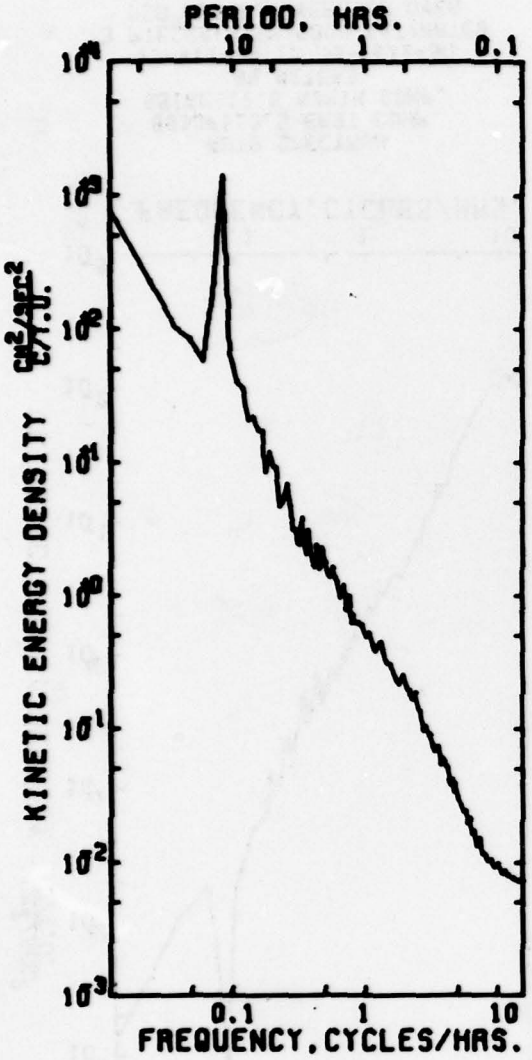


AUTO SPECTRUM
85138112.5 PRESSURE
85 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

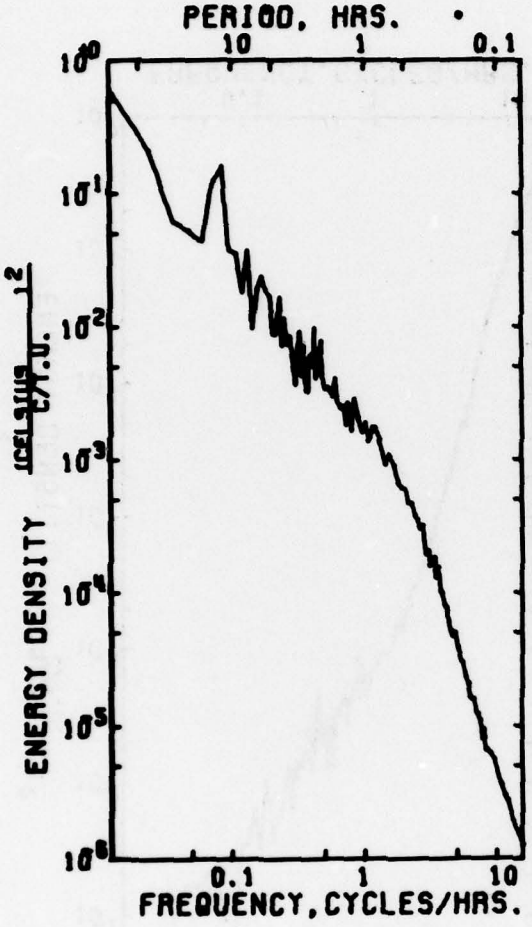


AUTO SPECTRUM
652.128120A EAST COMP.
652.128120A NORTH COMP.

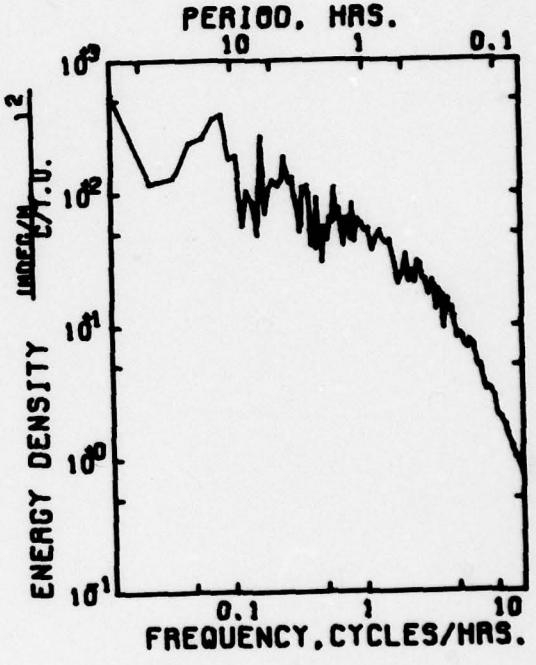
78-VII-30 TO 78-IX-02
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



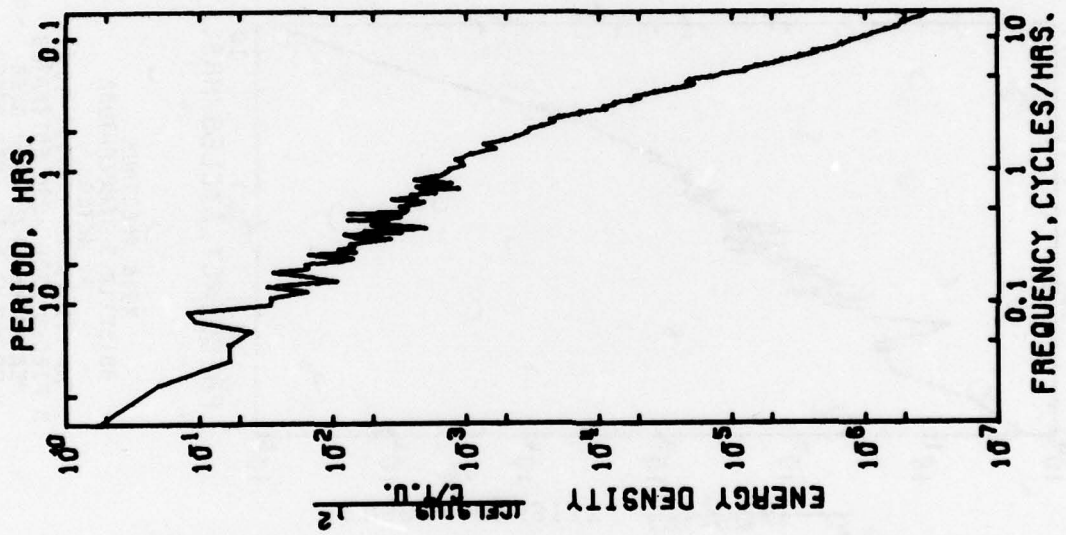
AUTO SPECTRUM
6515C112.5 EAST COMP.
6515C112.5 NORTH COMP.
91 METERS
78-VII-28 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

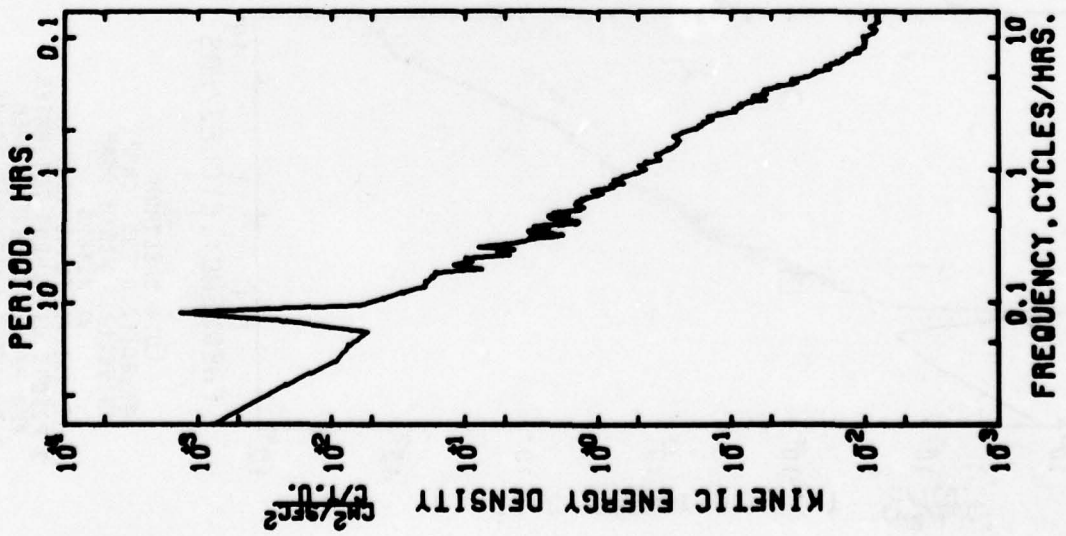


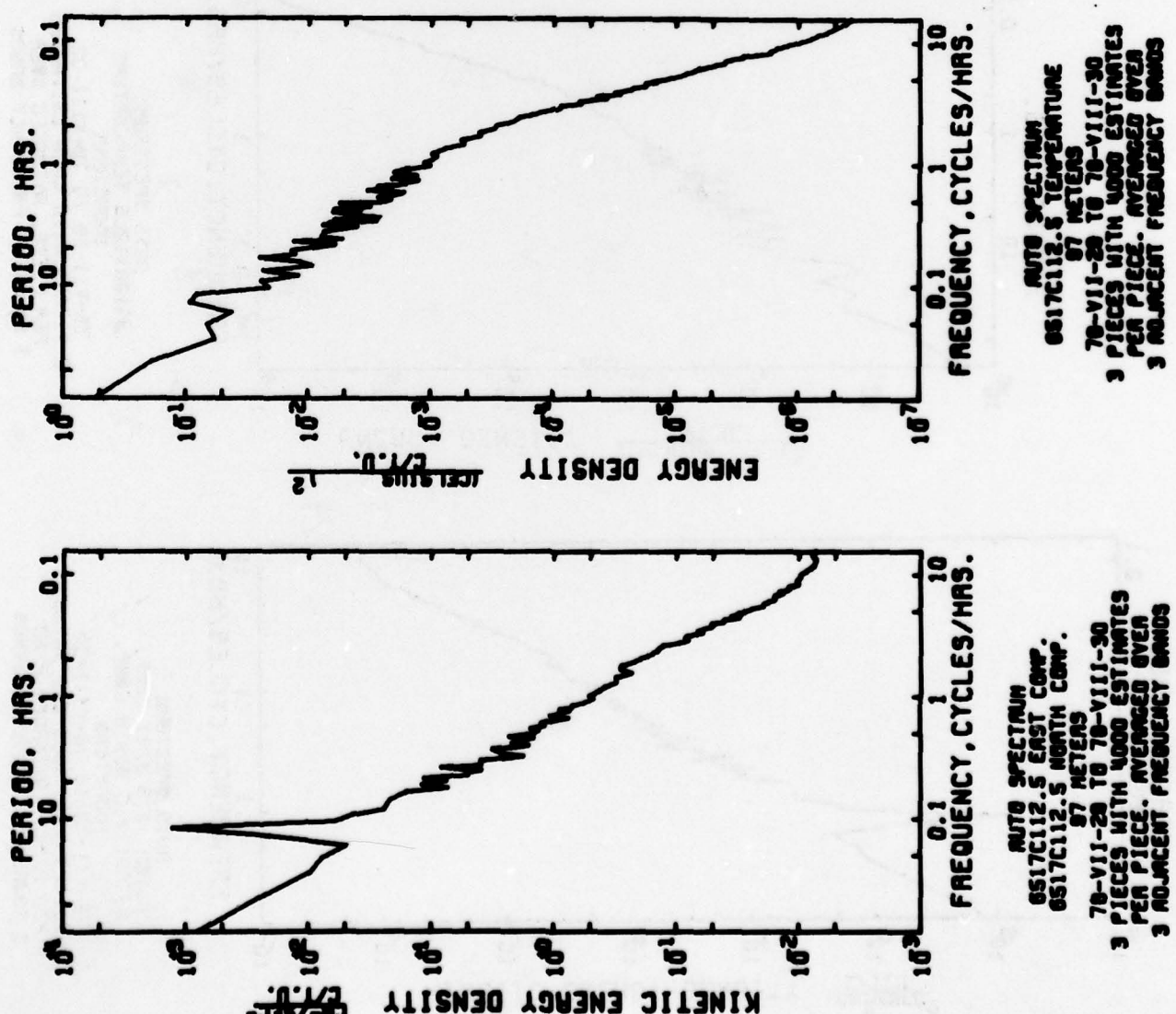
AUTO SPECTRUM
6515C112.5 TEMPERATURE
91 METERS
78-VII-28 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

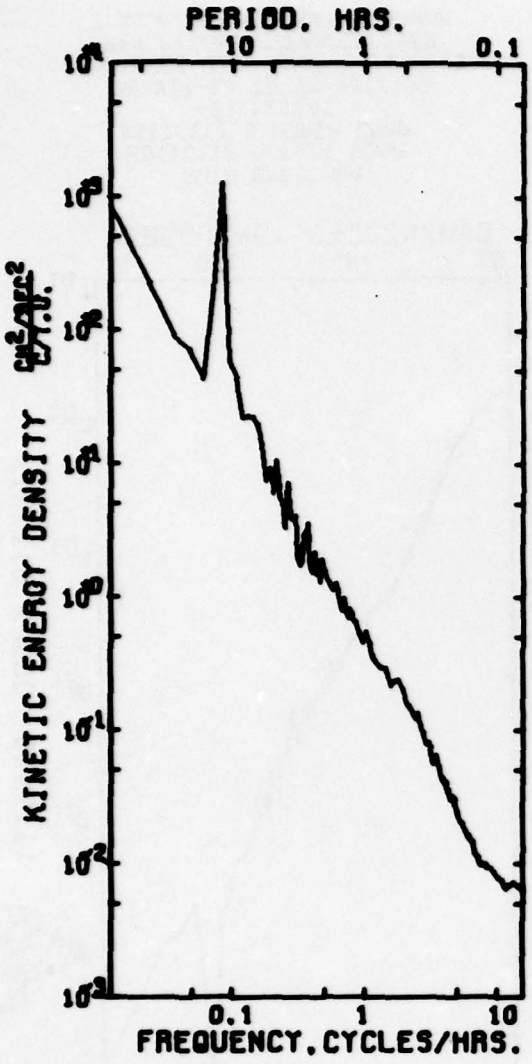


AUTO SPECTRUM
6515C112.5 TOIF
91 METERS
78-VII-28 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

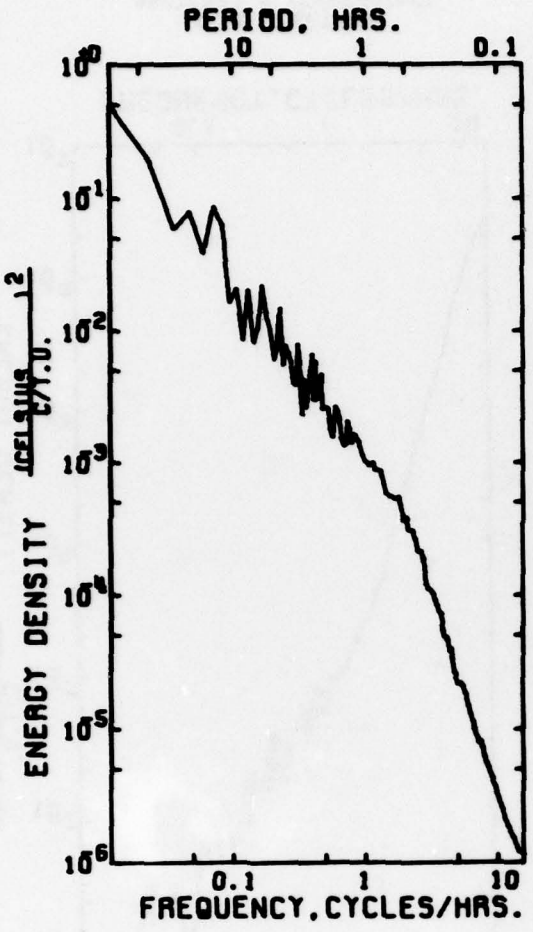

PERIOD, HRS.
FREQUENCY, CYCLES/HRS.
ENERGY DENSITY
AUTO SPECTRUM
0516F112.5 TEMPERATURE
94 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS


PERIOD, HRS.
FREQUENCY, CYCLES/HRS.
KINETIC ENERGY DENSITY
AUTO SPECTRUM
0516F112.5 EAST COMP.
0516F112.5 NORTH COMP.
94 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

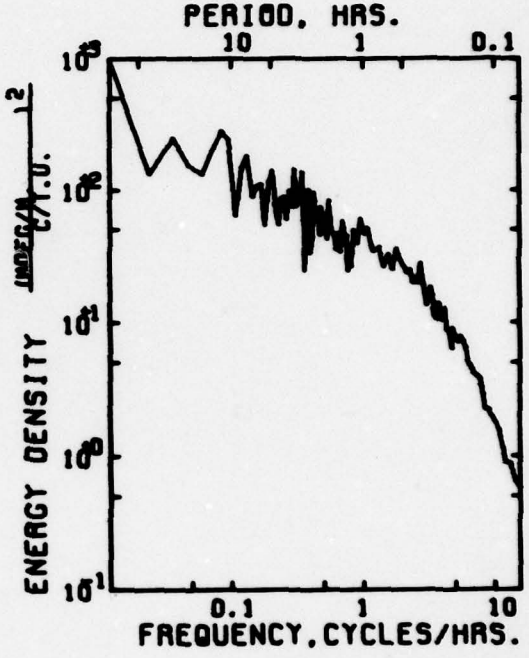

AUTO SPECTRUM
0517C112.5 TEMPERATURE
97 METERS
76-VII-28 TO 76-VIII-30
3 PIECES WITH 400D ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS
ENERGY DENSITY
PERIOD, HRS.
FREQUENCY, CYCLES/HRS.
AUTO SPECTRUM
0517C112.5 EAST COMP.
0517C112.5 NORTH COMP.
97 METERS
76-VII-28 TO 76-VIII-30
3 PIECES WITH 400D ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS
KINETIC ENERGY DENSITY
PERIOD, HRS.
FREQUENCY, CYCLES/HRS.



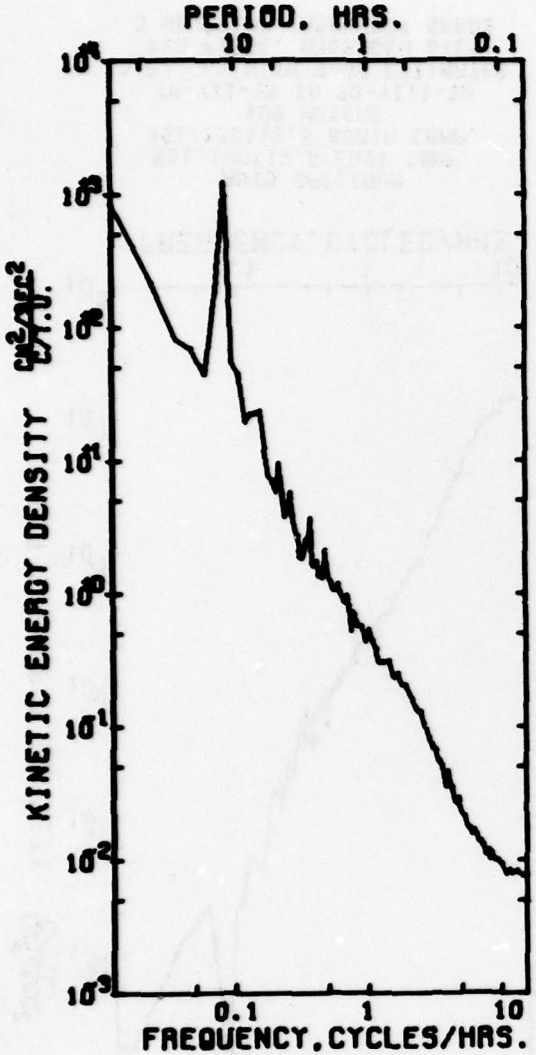
AUTO SPECTRUM
6510A112.5 EAST COMP.
6510A112.5 NORTH COMP.
100METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



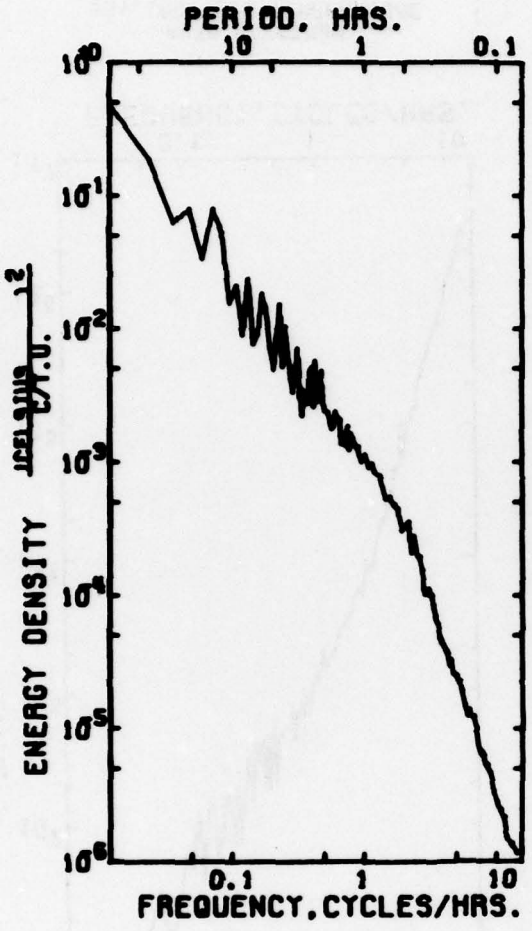
AUTO SPECTRUM
6510A112.5 TEMPERATURE
100METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



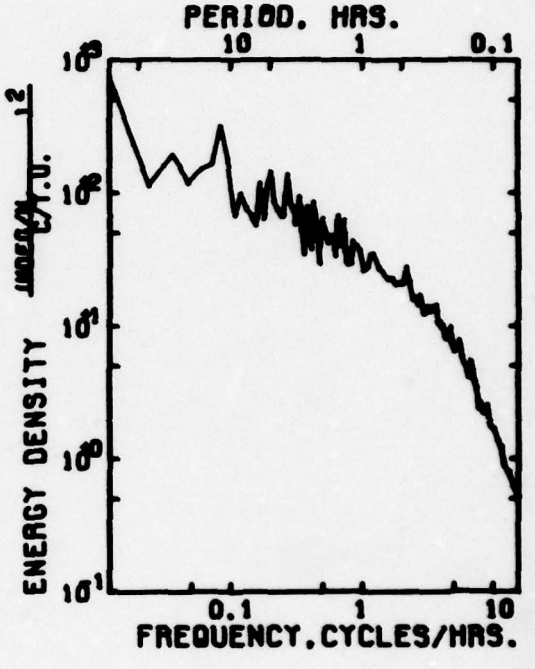
AUTO SPECTRUM
6510A112.5 TOIF
100METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



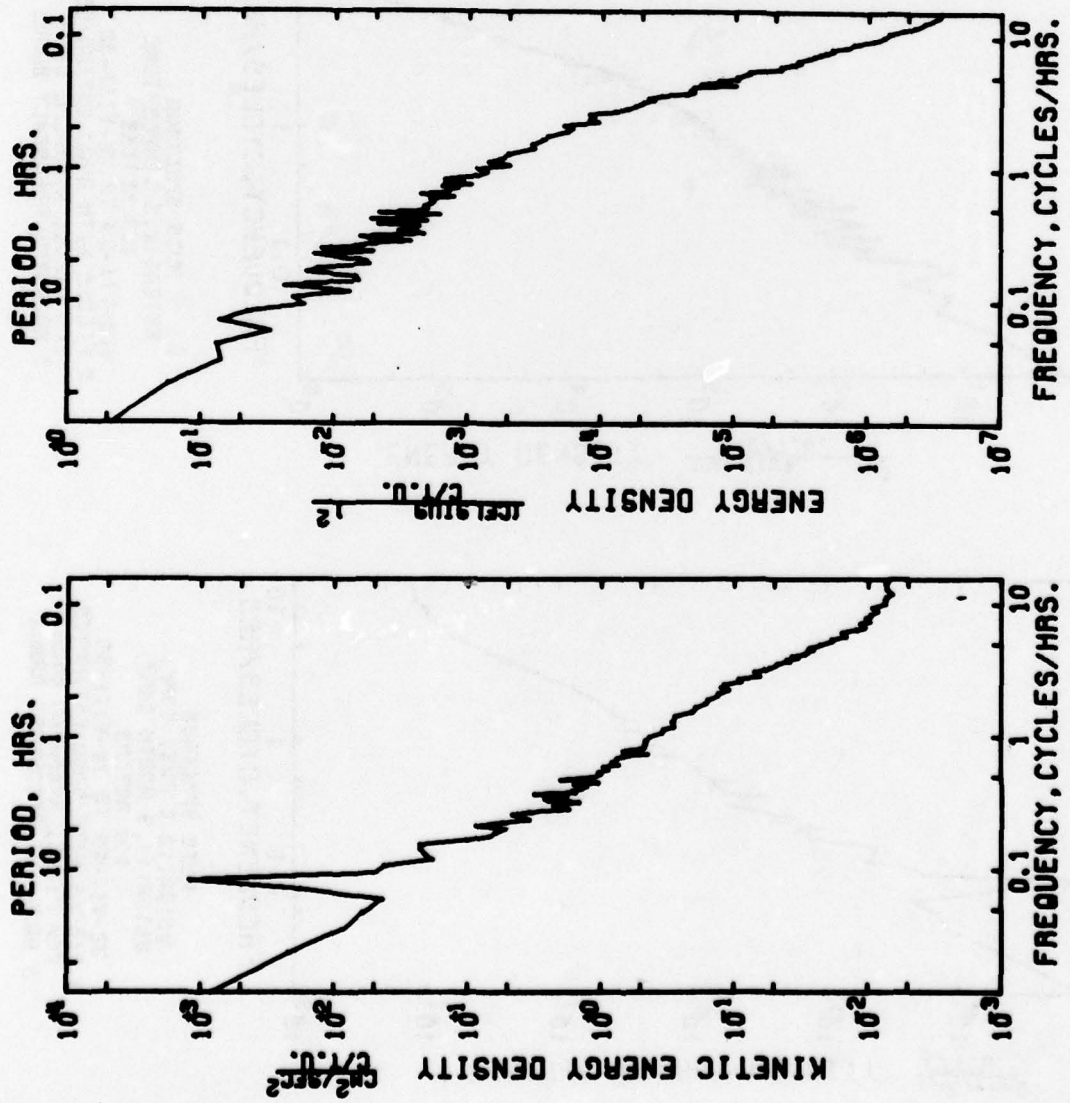
AUTO SPECTRUM
8519A112.5 EAST COMP.
8519A112.5 NORTH COMP.
103 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

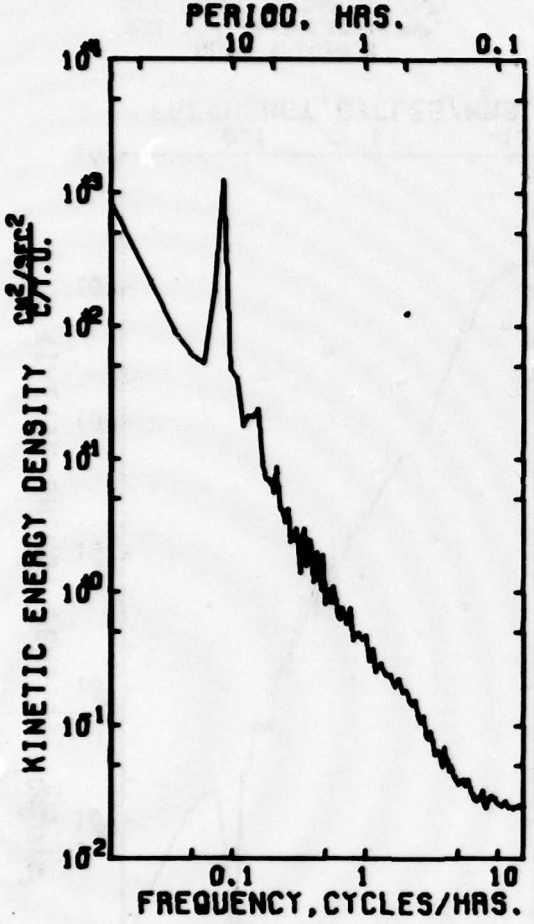


AUTO SPECTRUM
8519A112.5 TEMPERATURE
103 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

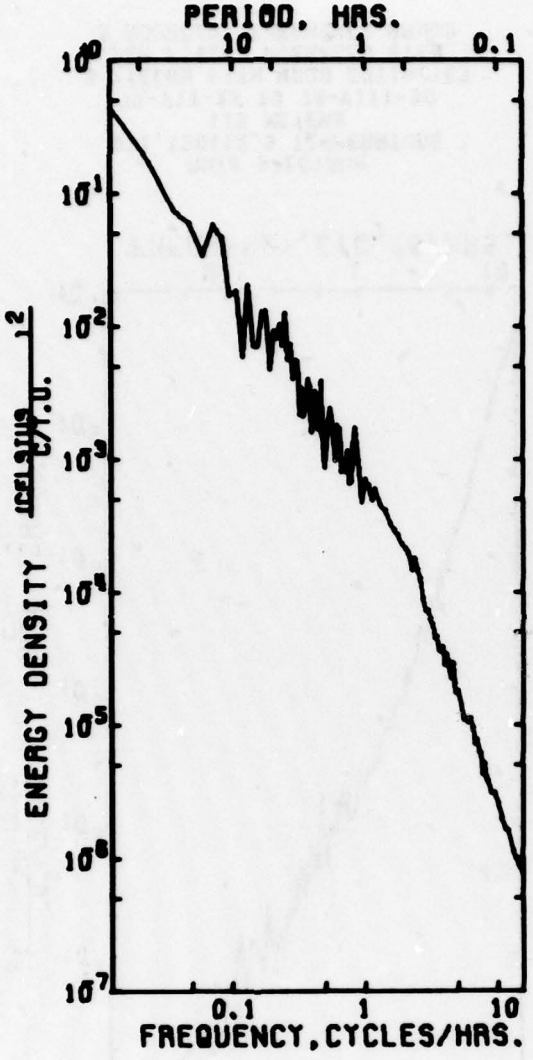


AUTO SPECTRUM
8519A112.5 TDIF
103 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

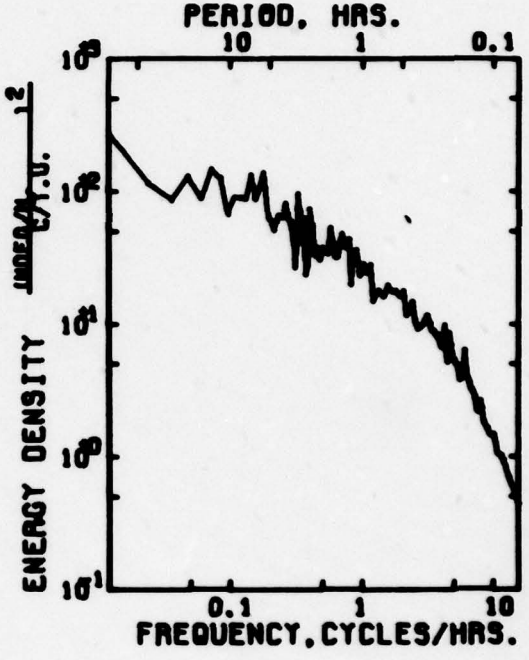

PERIOD, HRS.
FREQUENCY, CYCLES/HRS.
ENERGY DENSITY
AUTO SPECTRUM
851.10C112.5 TEMPERATURE
100 METERS
70-VII-29 TO 70-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS
PERIOD, HRS.
FREQUENCY, CYCLES/HRS.
KINETIC ENERGY DENSITY
AUTO SPECTRUM
851.10C112.5 EAST COMP.
851.10C112.5 NORTH COMP.
100 METERS
70-VII-29 TO 70-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



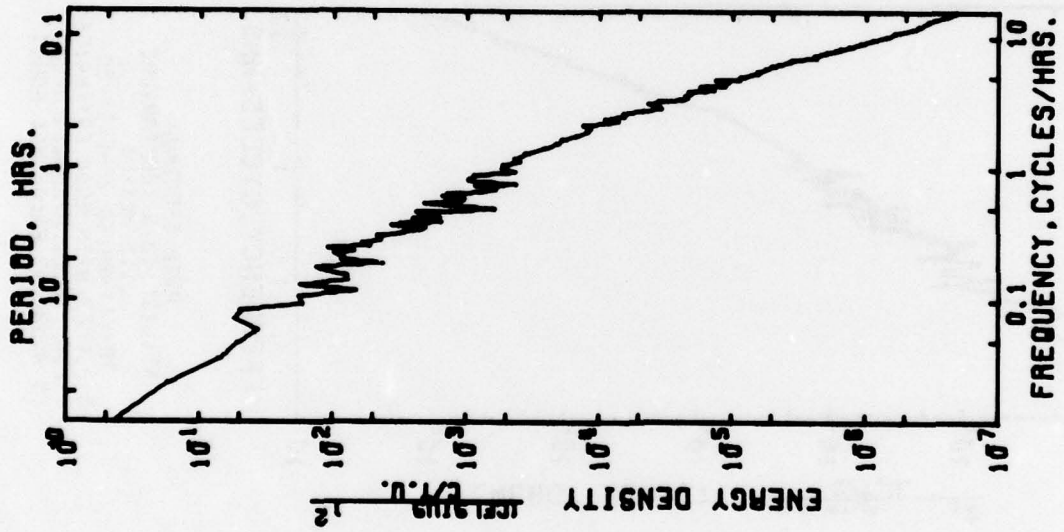
AUTO SPECTRUM
851,12A112.5 EAST COMP.
851,12A112.5 NORTH COMP.
112 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

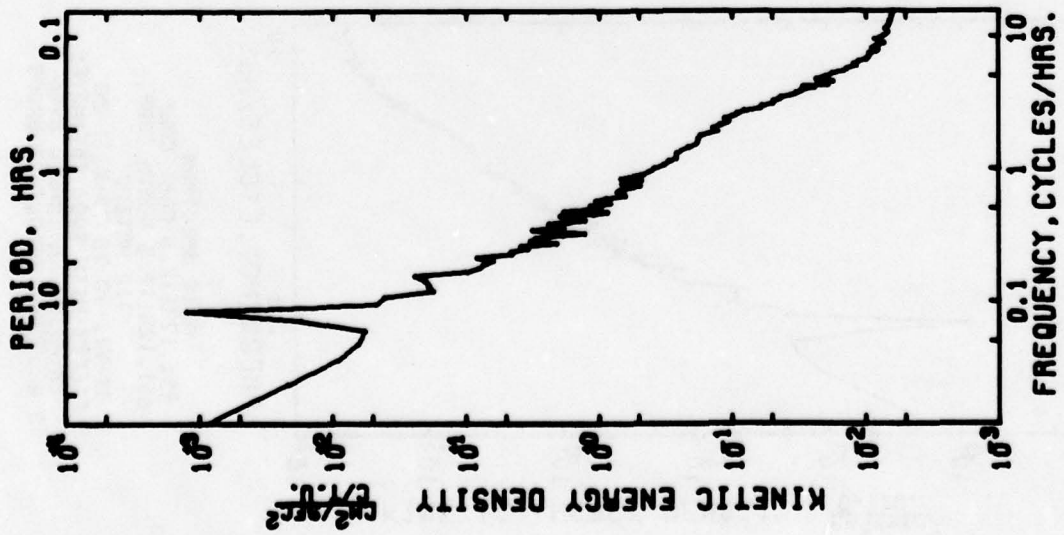


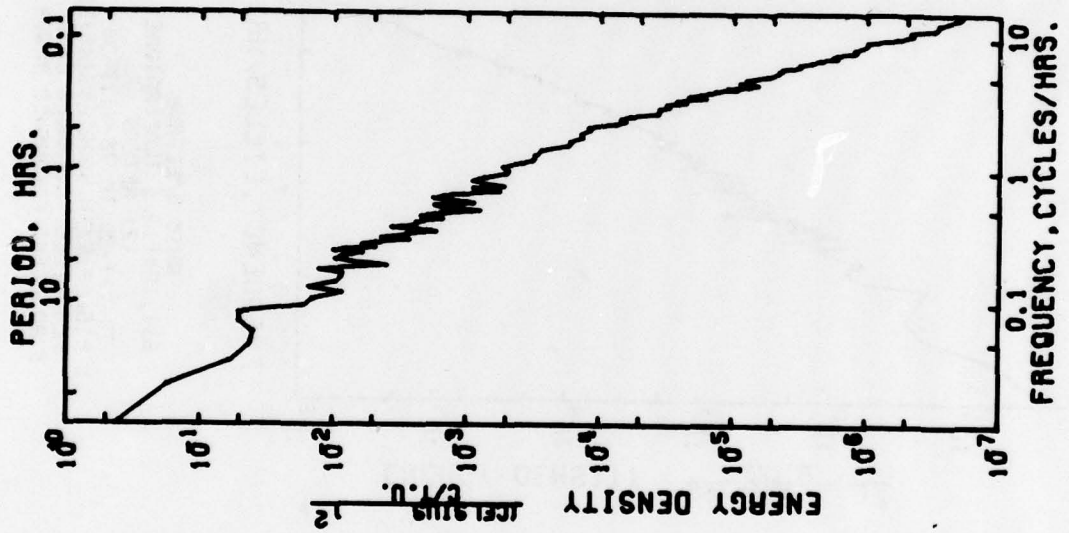
AUTO SPECTRUM
851,12A112.5 TEMPERATURE
112 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



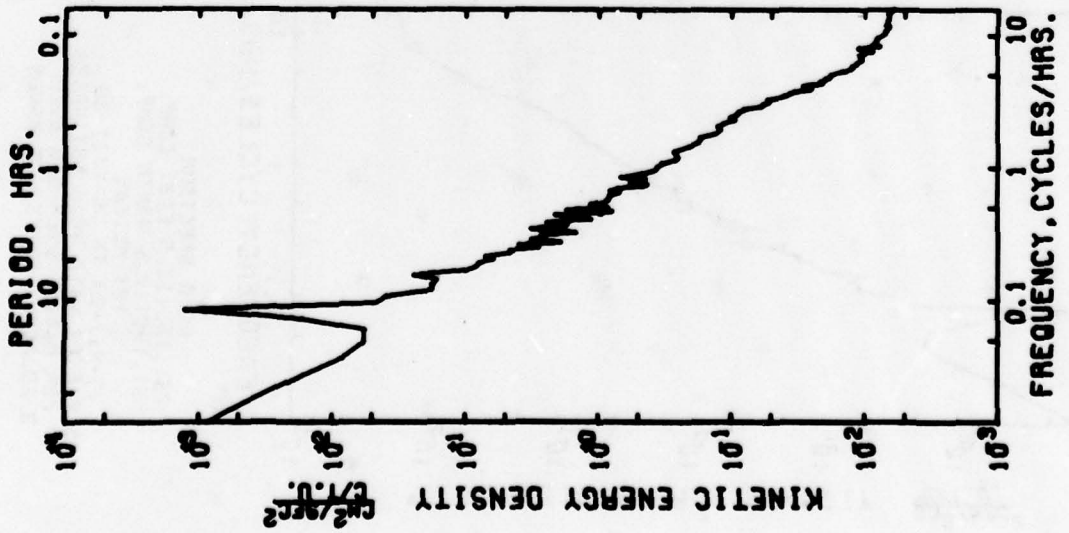
AUTO SPECTRUM
851,12A112.5 TDIF
112 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS


PERIOD. HRS.
0.1
1
10
FREQUENCY, CYCLES/HRS.
0.1
1
10
ENERGY DENSITY
AUTO SPECTRUM
GSL.198112.5 TEMPERATURE
115 METERS
78-VII-20 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

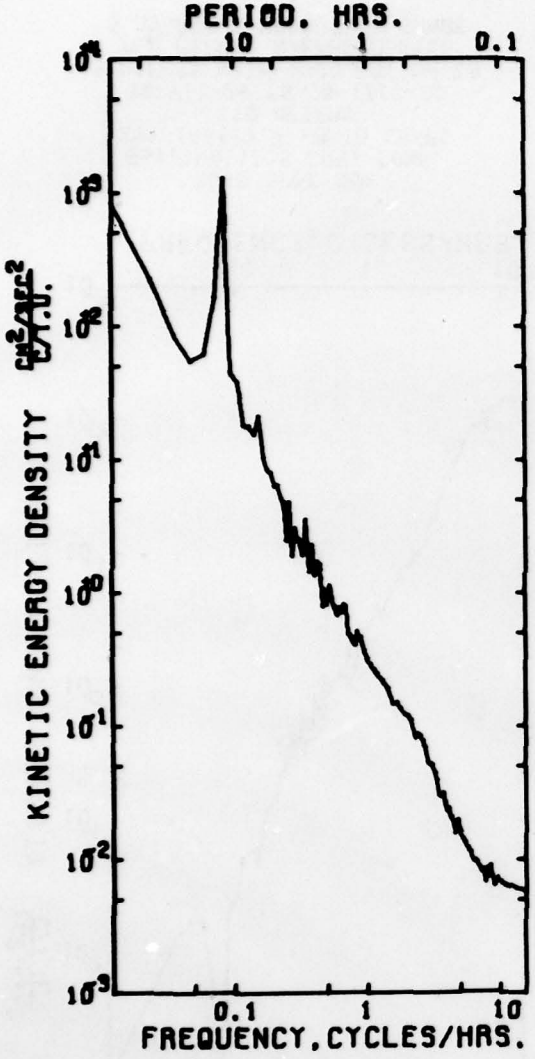

PERIOD. HRS.
0.1
1
10
FREQUENCY, CYCLES/HRS.
0.1
1
10
KINETIC ENERGY DENSITY
AUTO SPECTRUM
GSL.198112.5 EAST COMP.
GSL.198112.5 NORTH COMP.
115 METERS
78-VII-20 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



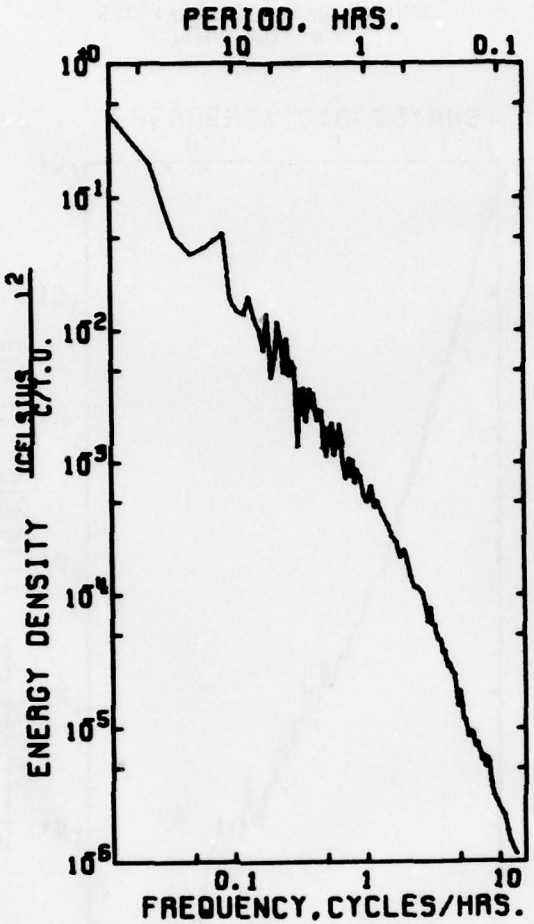
AUTO SPECTRUM
651,148112.5 TEMPERATURE
110 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



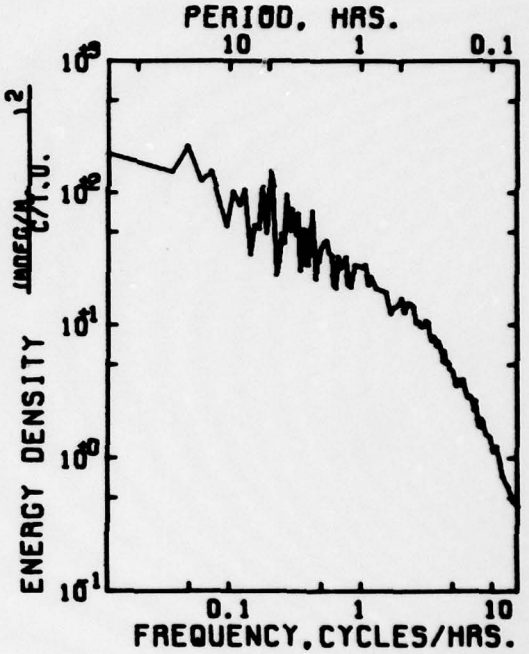
AUTO SPECTRUM
651,148112.5 EAST COMP.
651,148112.5 NORTH COMP.
110 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



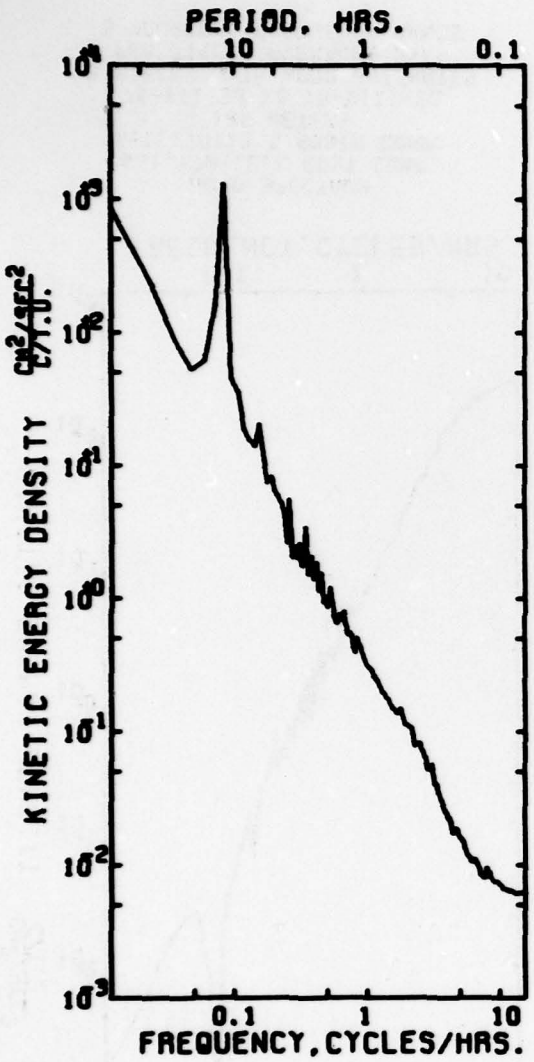
AUTO SPECTRUM
851.15C112.5 EAST COMP.
851.15C112.5 NORTH COMP.
121 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



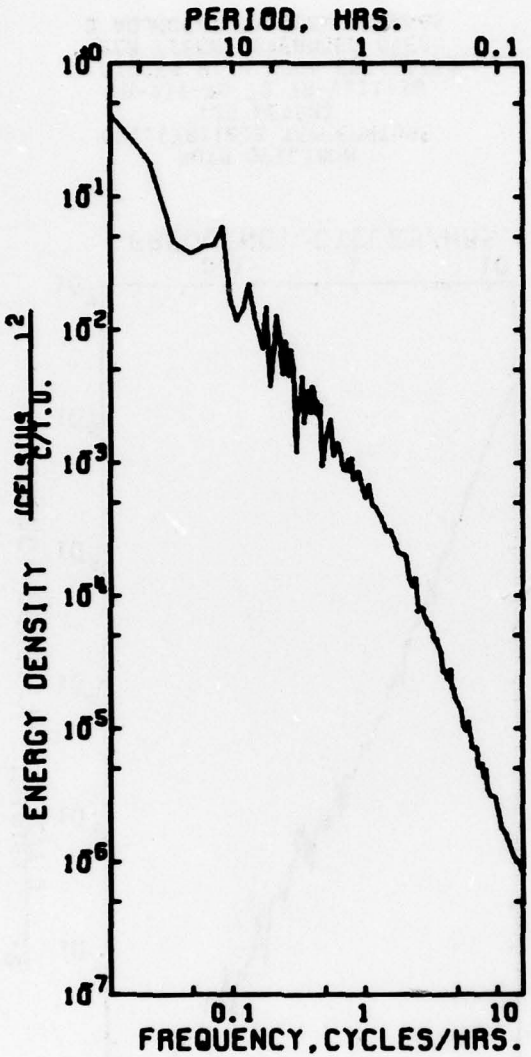
AUTO SPECTRUM
651.15B112.5 TEMPERATURE
121 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



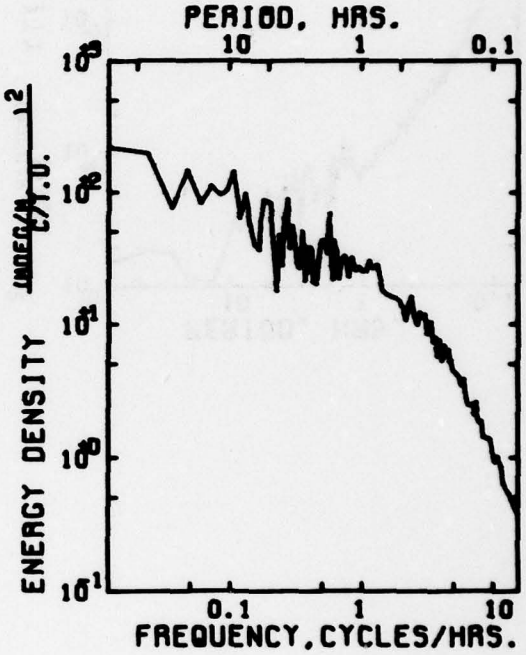
AUTO SPECTRUM
651.15B112.5 TOIF
121 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



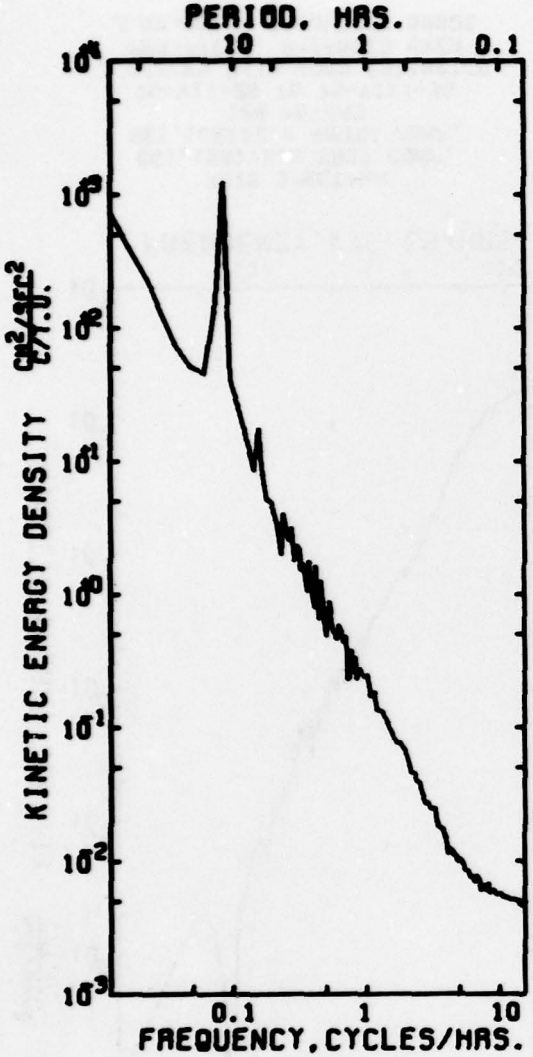
AUTO SPECTRUM
651.16A112.5 EAST COMP.
651.16A112.5 NORTH COMP.
124 METERS
78-VII-28 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



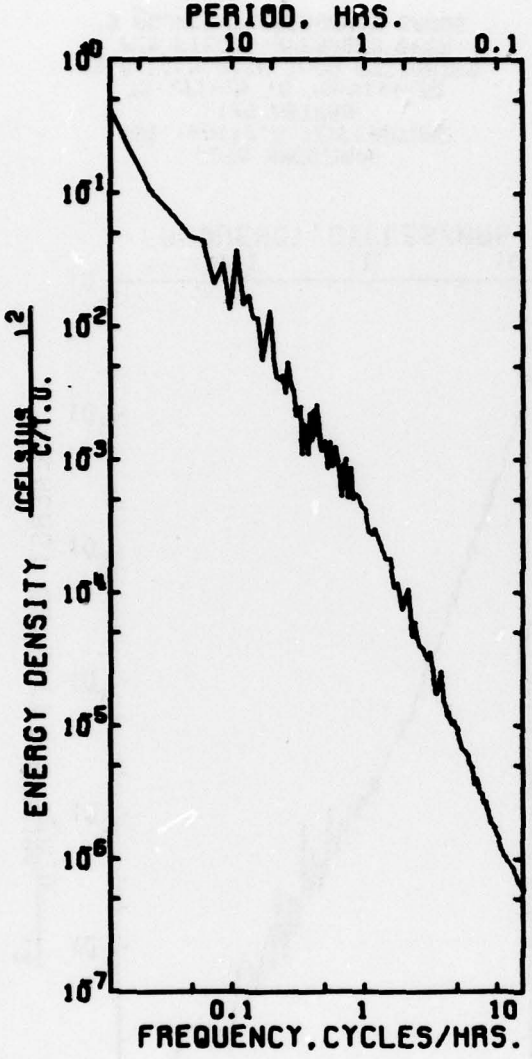
AUTO SPECTRUM
651.16A112.5 TEMPERATURE
124 METERS
78-VII-28 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



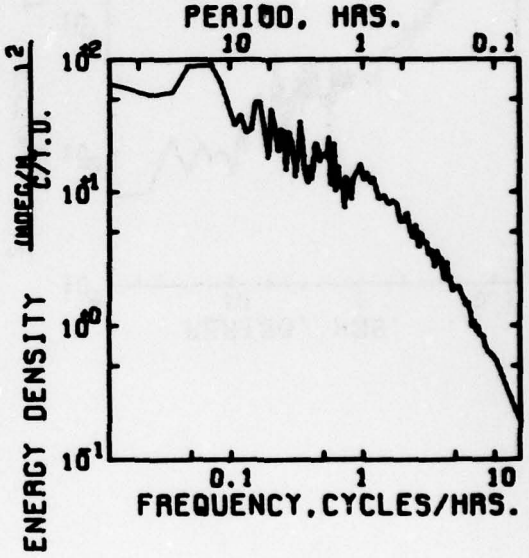
AUTO SPECTRUM
651.16A112.5 TOIF
124 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



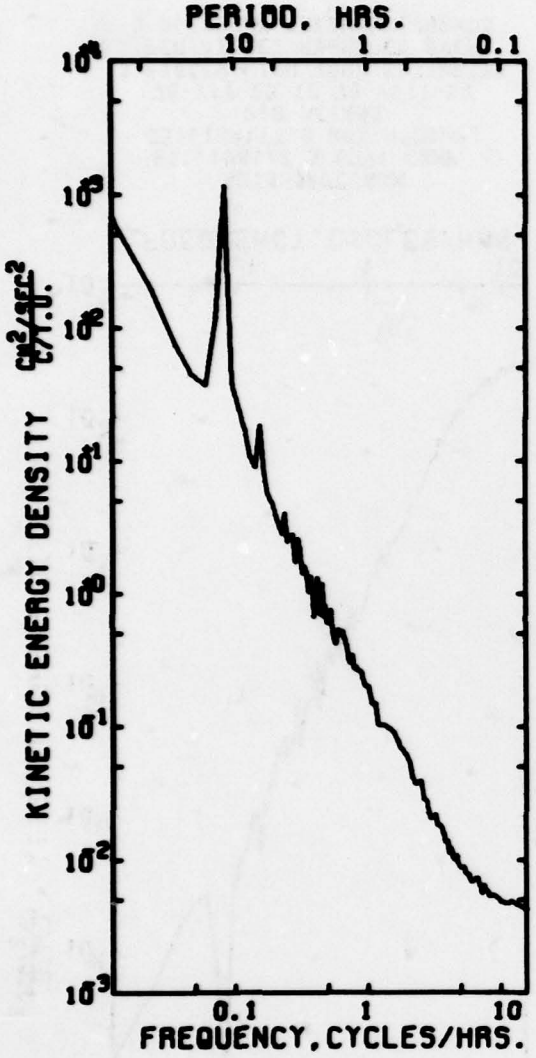
AUTO SPECTRUM
651.17A112.5 EAST COMP.
651.17A112.5 NORTH COMP.
185 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



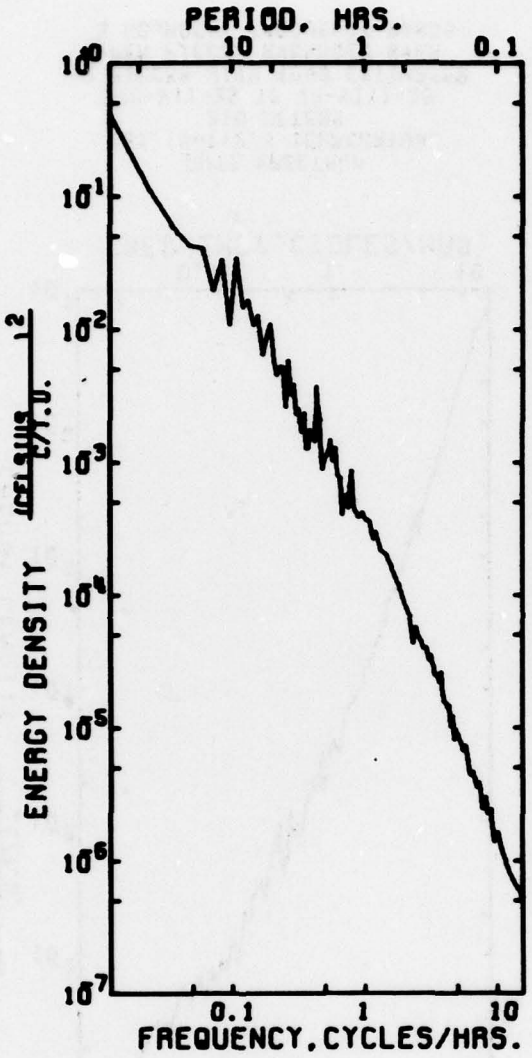
AUTO SPECTRUM
651.17A112.5 TEMPERATURE
185 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



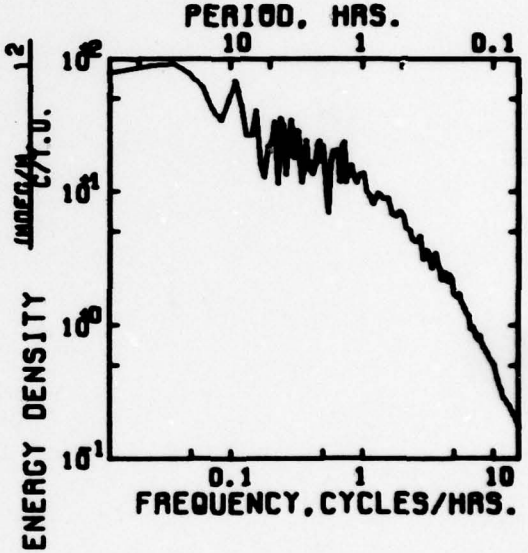
AUTO SPECTRUM
651.17A112.5 TDIF
185 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



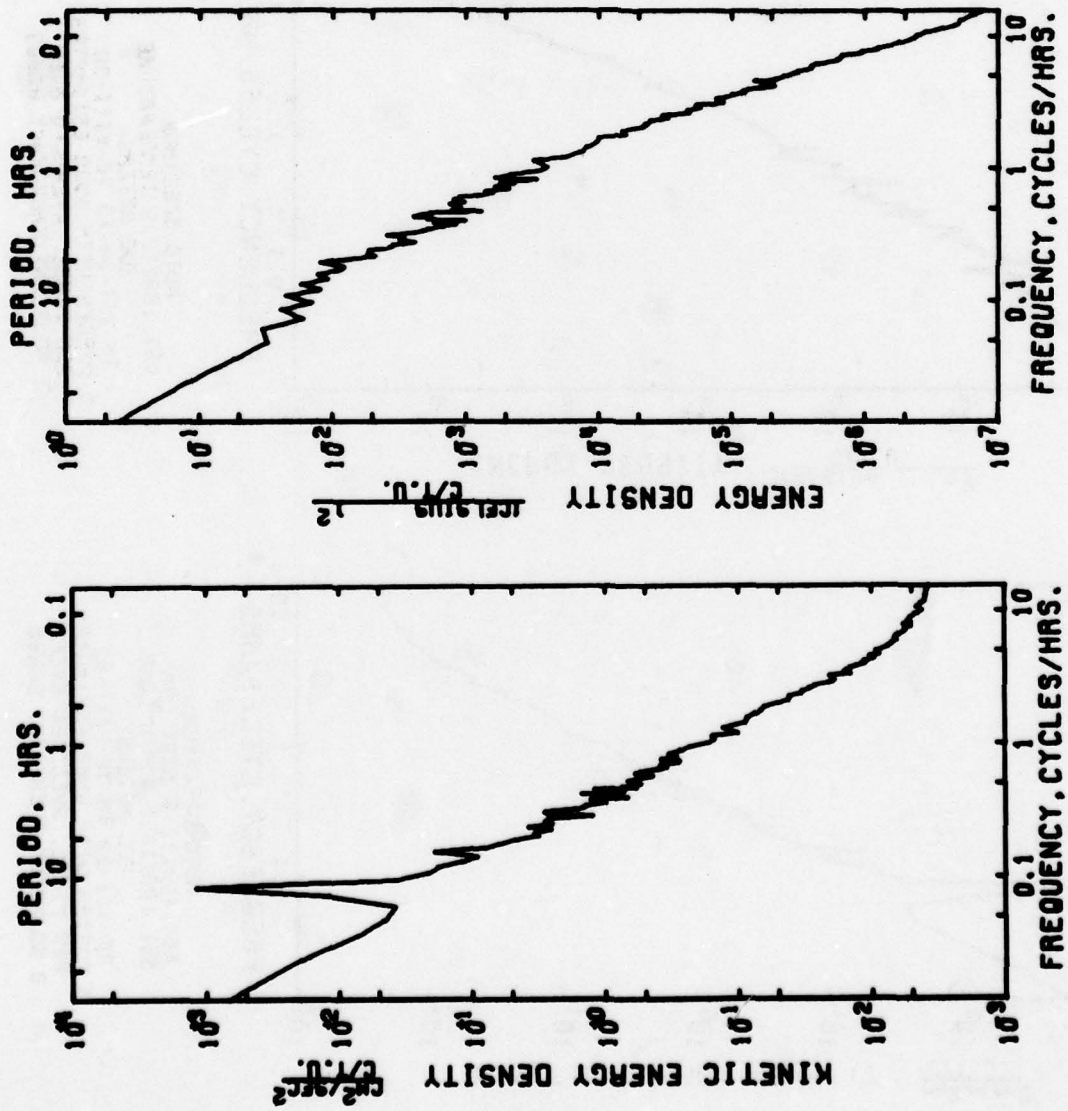
AUTO SPECTRUM
651.18A112.5 EAST COMP.
651.18A112.5 NORTH COMP.
200 METERS
78-VII-28 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

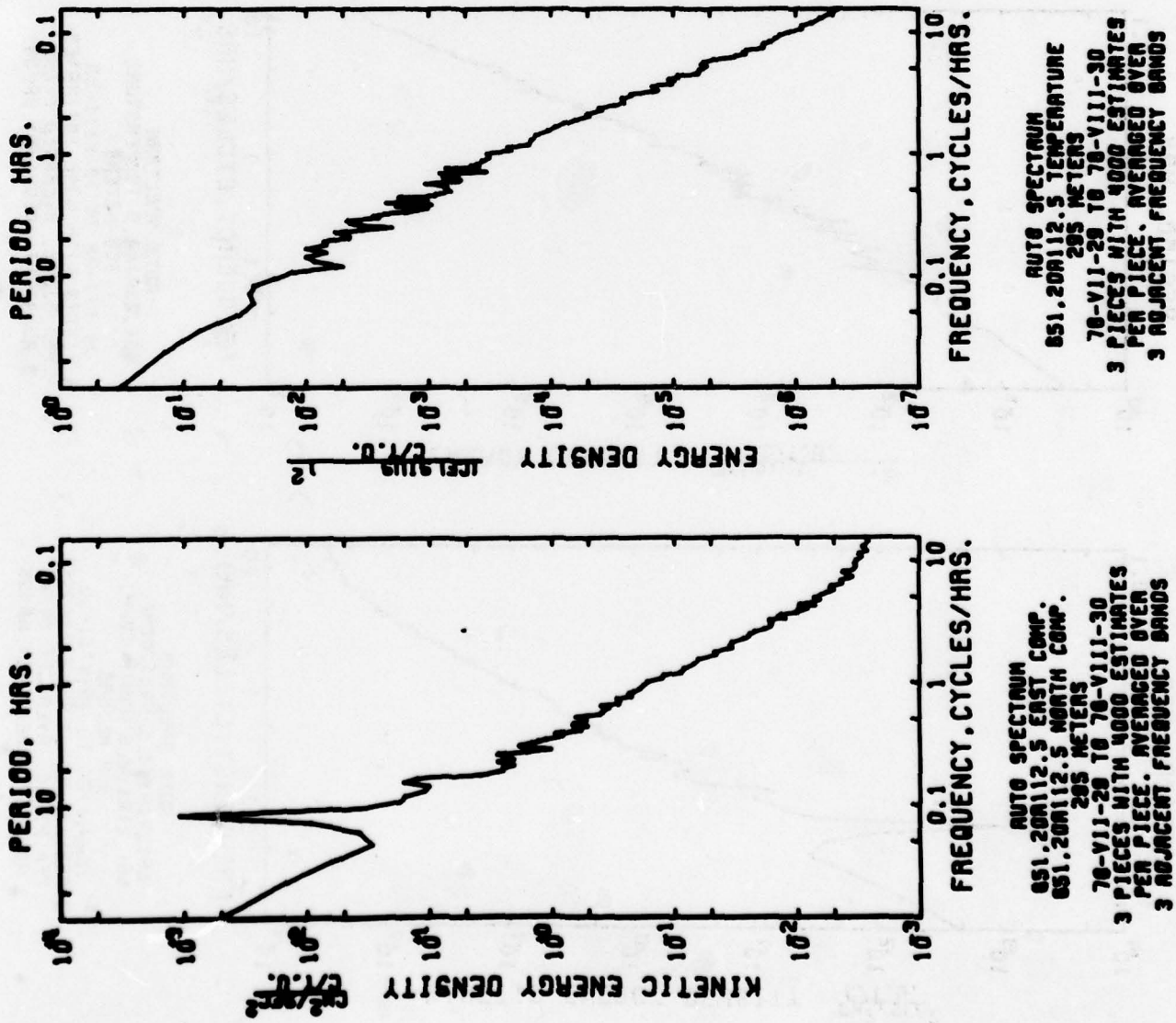


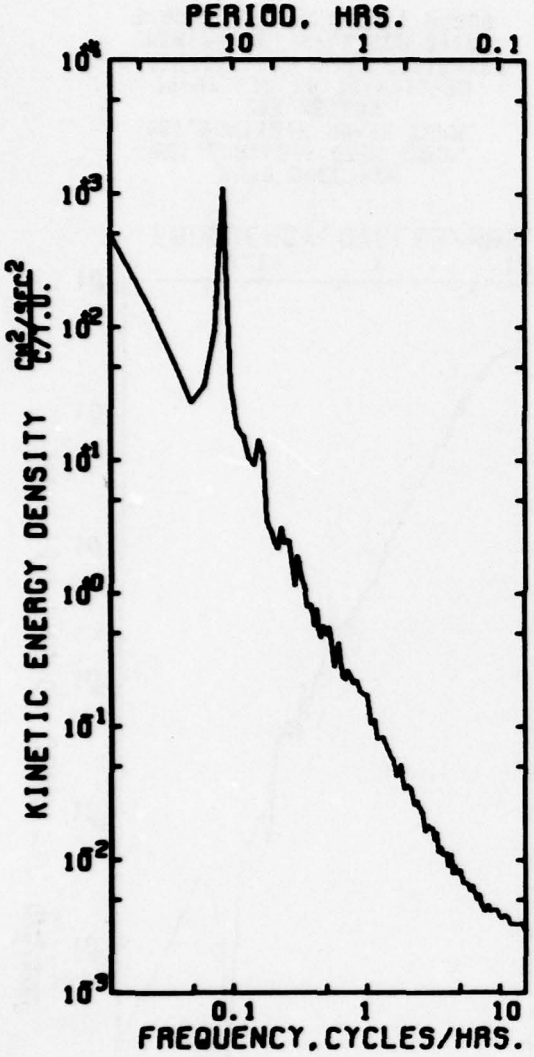
AUTO SPECTRUM
651.18A112.5 TEMPERATURE
200 METERS
78-VII-28 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



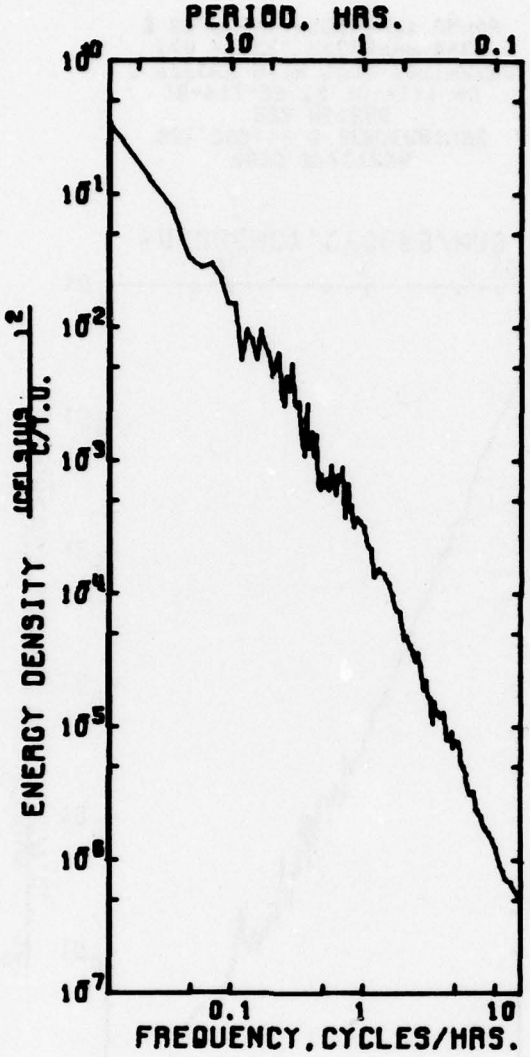
AUTO SPECTRUM
651.18A112.5 TDIF
200 METERS
78-VII-28 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS


PERIOD, HRS.
FREQUENCY, CYCLES/HRS.
ENERGY DENSITY
AUTO SPECTRUM
851.19A112.5 TEMPERATURE
210 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS
PERIOD, HRS.
FREQUENCY, CYCLES/HRS.
KINETIC ENERGY DENSITY
AUTO SPECTRUM
851.19A112.5 EAST COMP.
851.19A112.5 NORTH COMP.
210 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

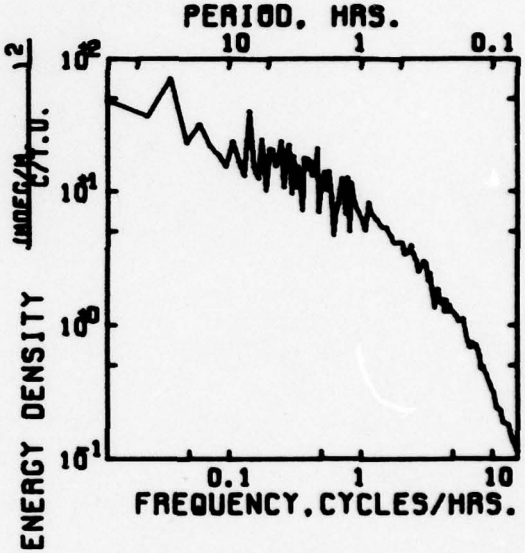

PERIOD, HRS.
FREQUENCY, CYCLES/HRS.
KINETIC ENERGY DENSITY
AUTO SPECTRUM
851.20A112.5 EAST COMP.
851.20A112.5 NORTH COMP.
205 METERS
70-V11-20 TO 70-V111-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS
PERIOD, HRS.
FREQUENCY, CYCLES/HRS.
ENERGY DENSITY
AUTO SPECTRUM
851.20A112.5 TEMPERATURE
205 METERS
70-V11-29 TO 70-V111-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



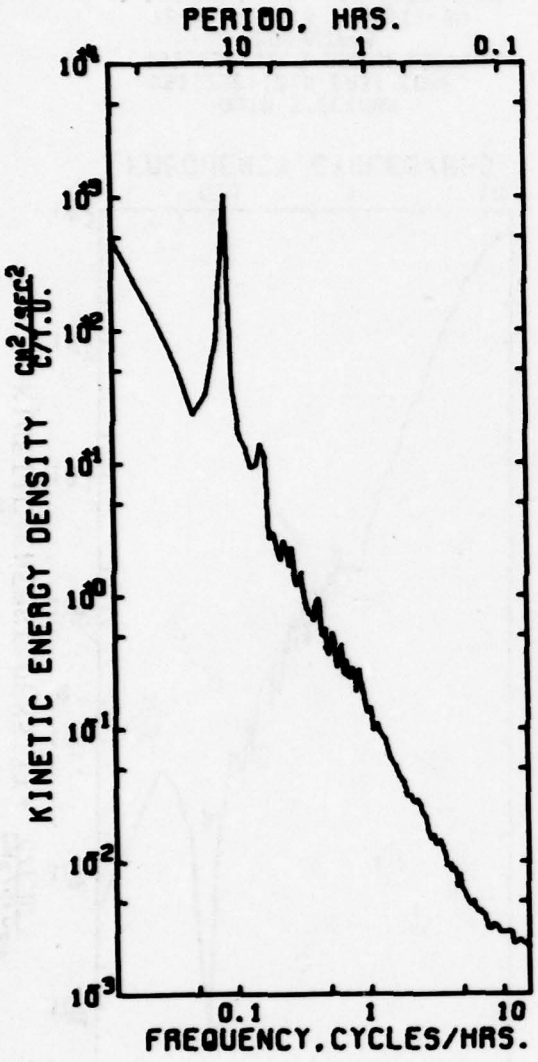
AUTO SPECTRUM
651.21A112.5 EAST COMP.
651.21A112.5 NORTH COMP.
300 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



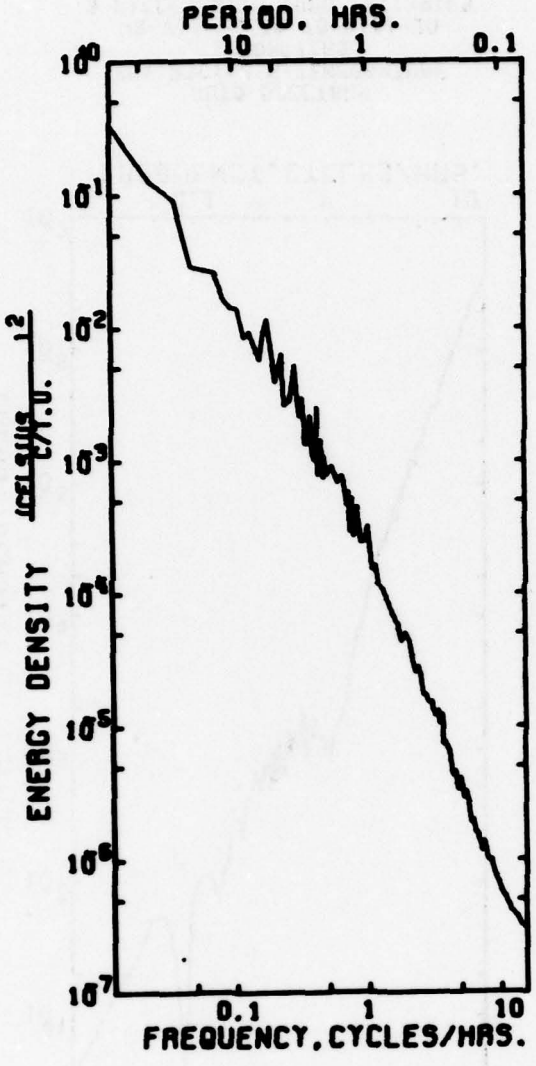
AUTO SPECTRUM
651.21A112.5 TEMPERATURE
300 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



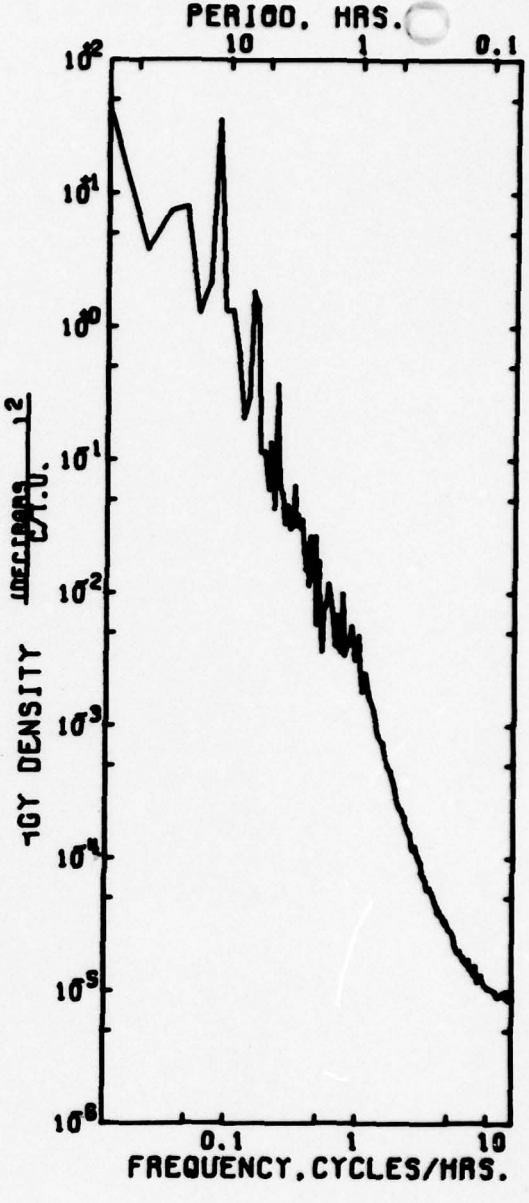
AUTO SPECTRUM
651.21A112.5 TDIF
300 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



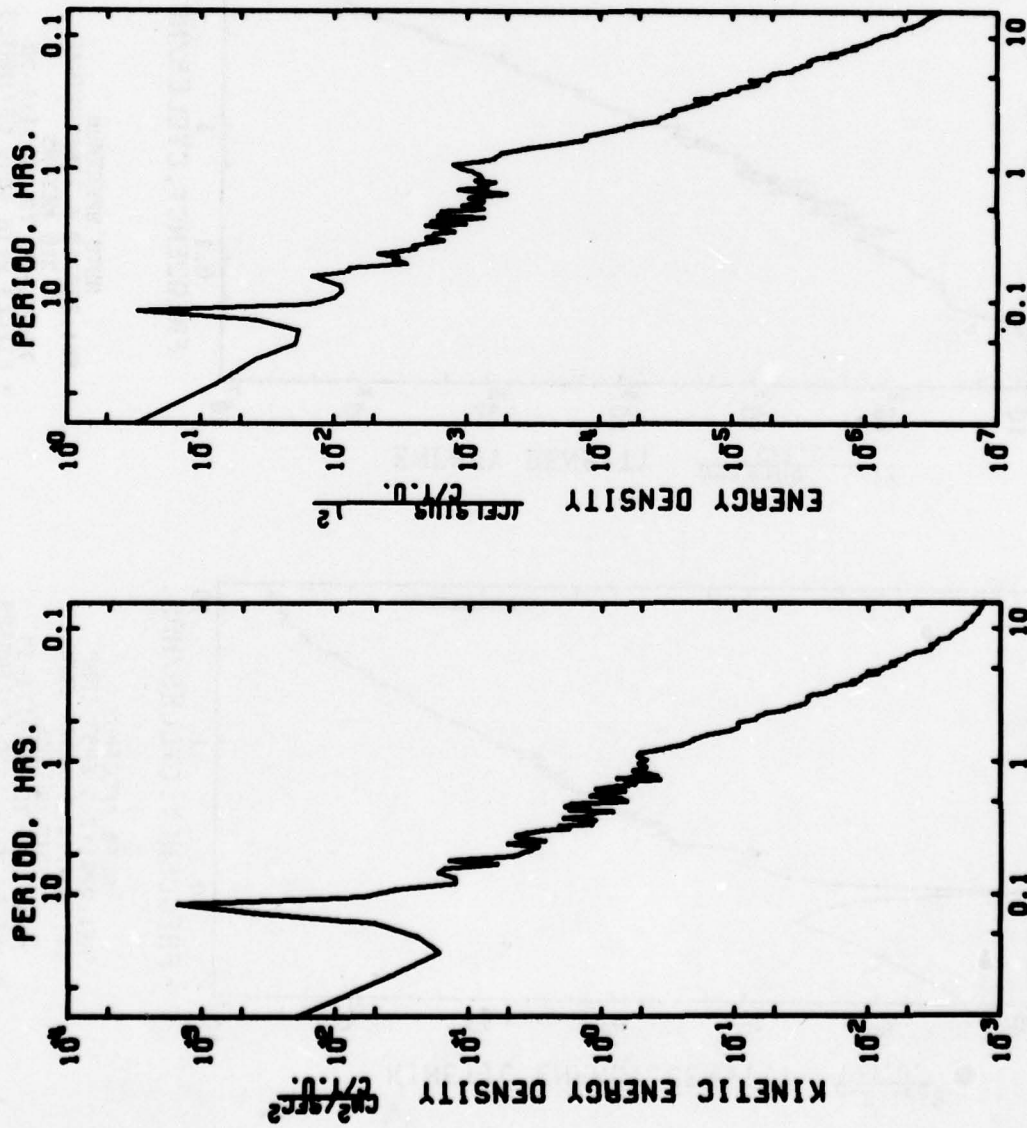
AUTO SPECTRUM
651.22A112.5 EAST COMP.
651.22A112.5 NORTH COMP.
310 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

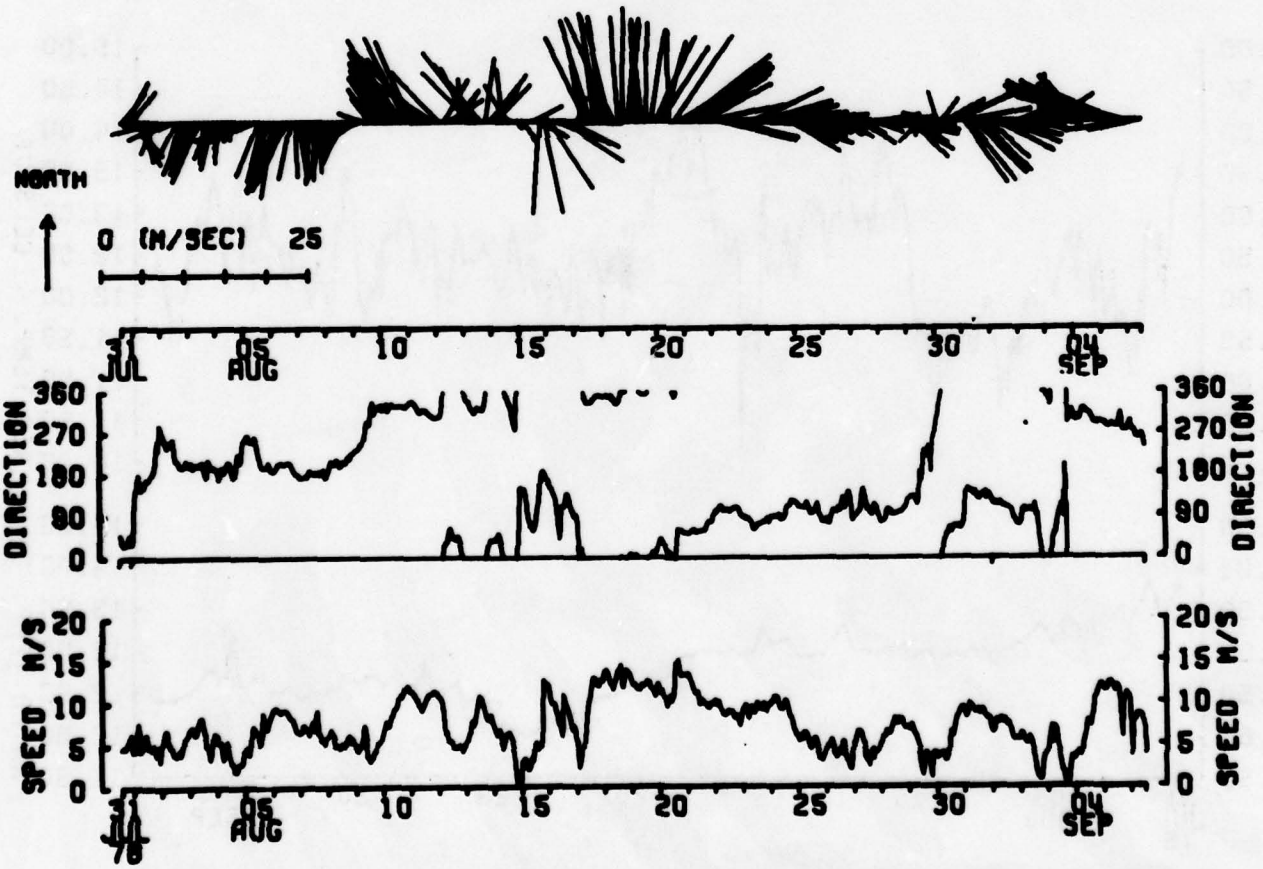


AUTO SPECTRUM
651.22A112.5 TEMPERATURE
310 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



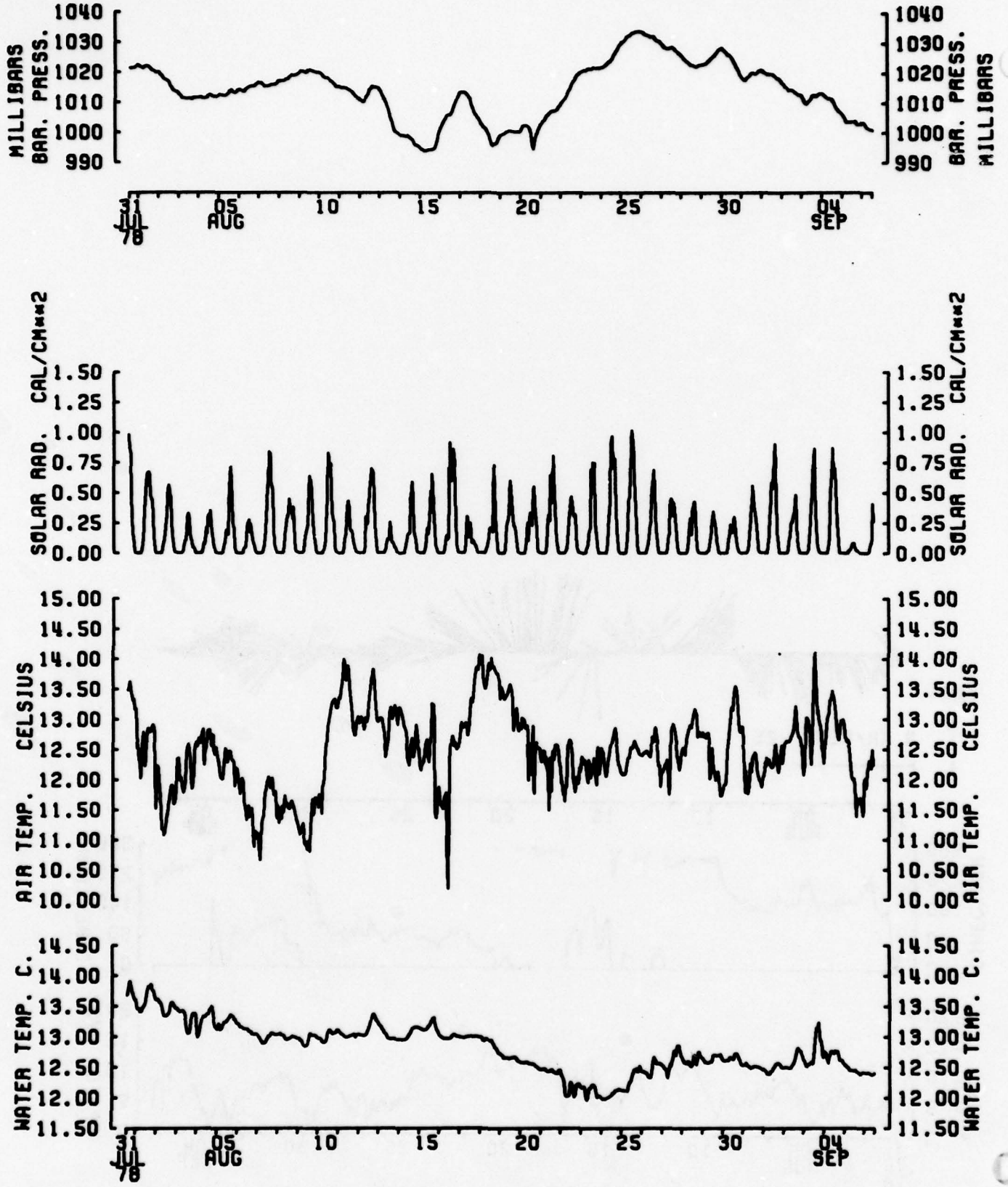
AUTO SPECTRUM
651.22A112.5 PRESSURE
310 METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS


KINETIC ENERGY DENSITY
cm²/sec²
c/i.u.
PERIOD, HRS.
FREQUENCY, CYCLES/HRS.
AUTO SPECTRUM
851.23C112.5 EAST COMP.
851.23C112.5 NORTH COMP.
1000METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS
ENERGY DENSITY
ICELSIUS²
c/i.u.
PERIOD, HRS.
FREQUENCY, CYCLES/HRS.
AUTO SPECTRUM
851.23C112.5 TEMPERATURE
1000METERS
78-VII-29 TO 78-VIII-30
3 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

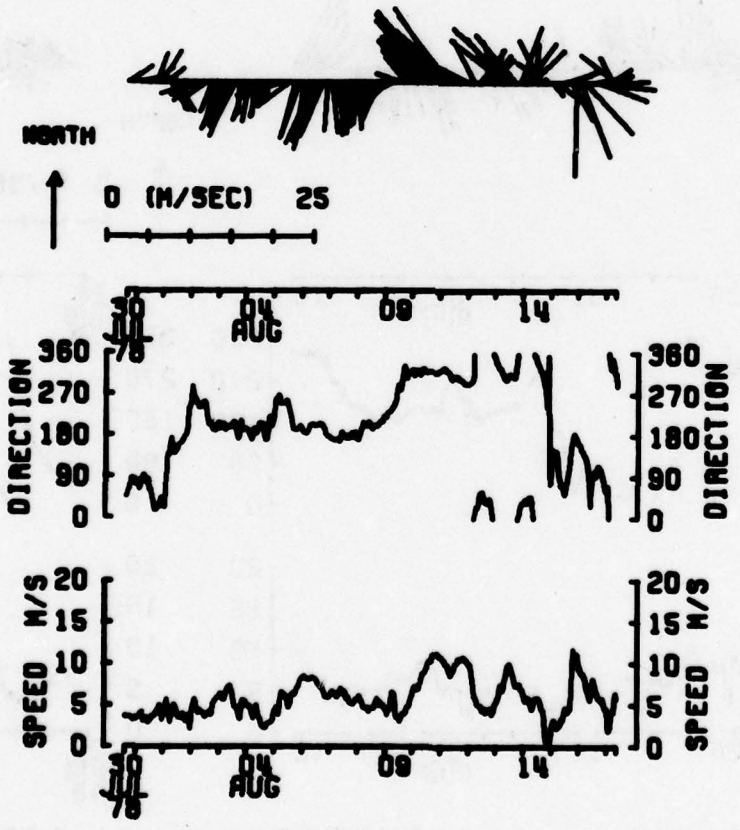


DATA 6520WD DEPTH OM. SURFACE MOORING

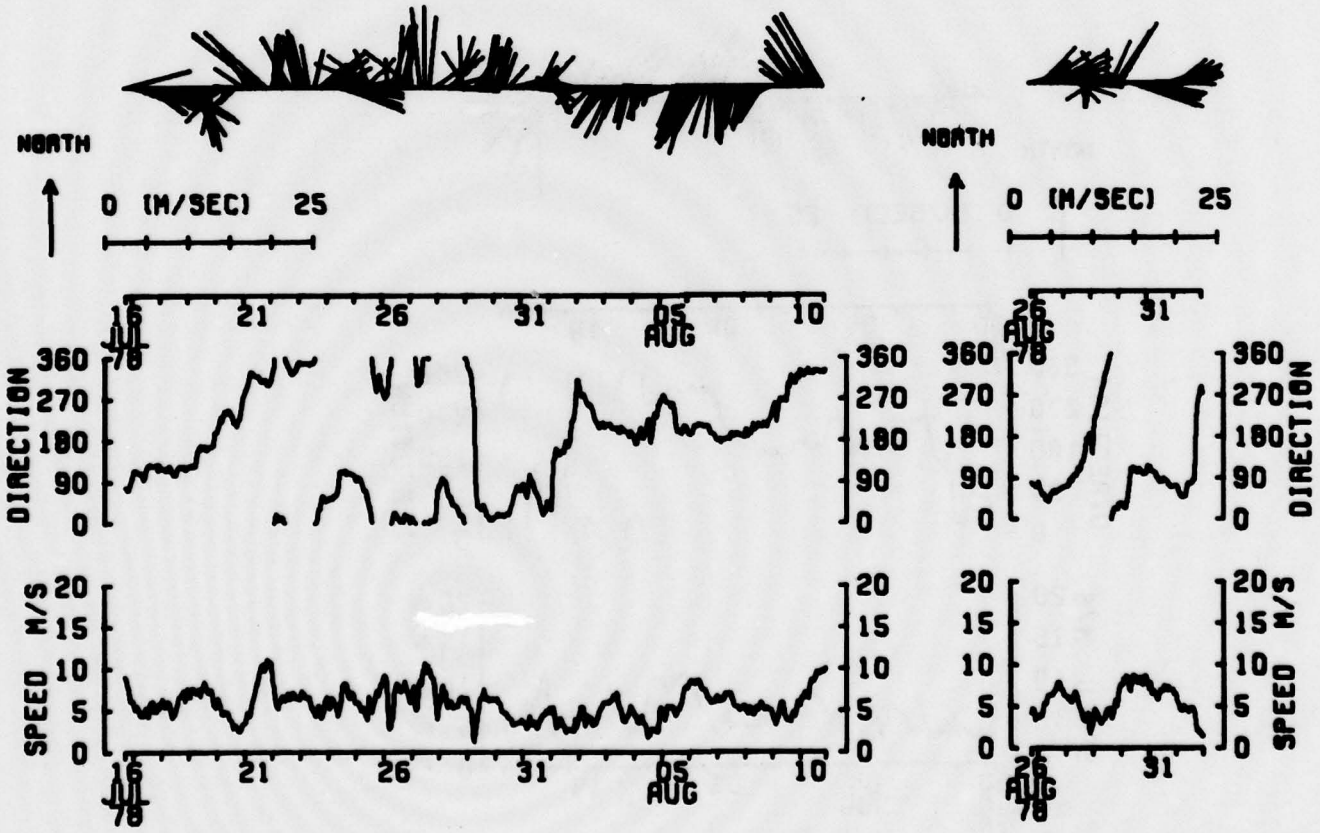
WIND



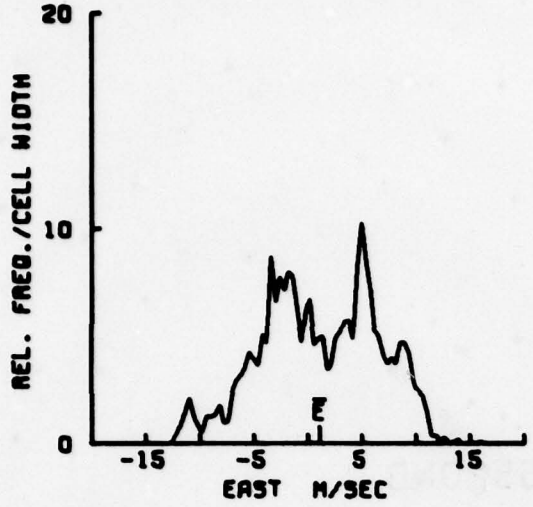
DATA 6520WD CONTINUED

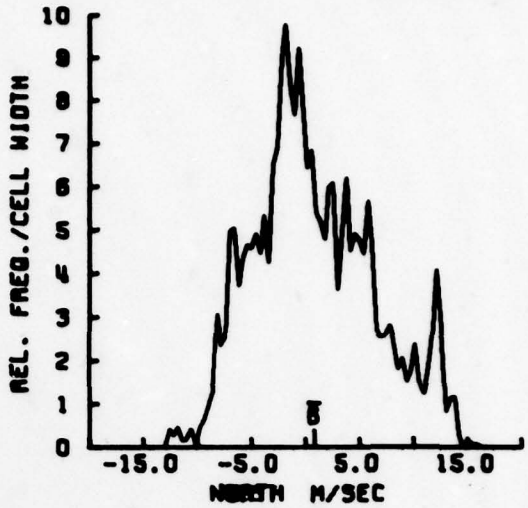


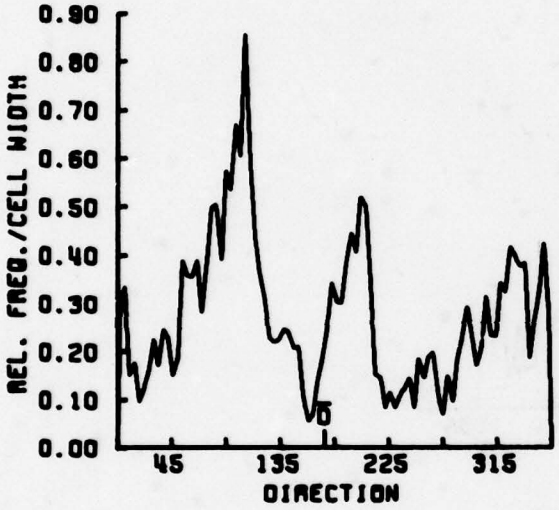
DATA 6520SB WIND RECORD

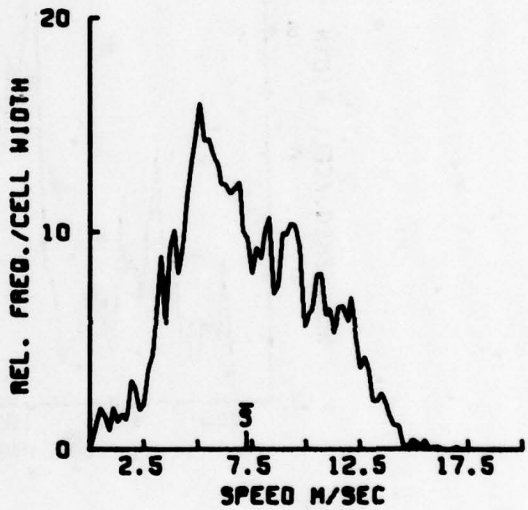

NORTH
0 (M/SEC) 25
NORTH
0 (M/SEC) 25
DIRECTION
SPEED M/S
AUG
DATA H2S1B
WIND RECORD
DATA H2S2B

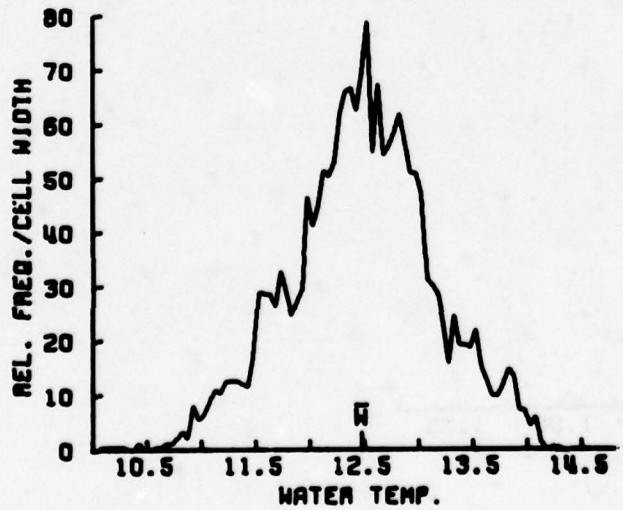
WIND RECORD DEPTH -0- M. 6520WD

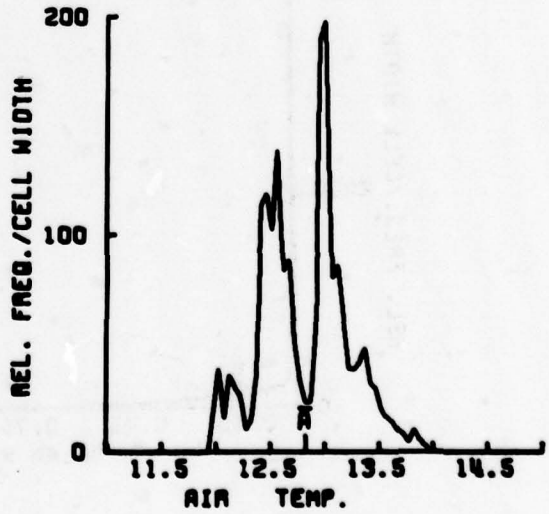


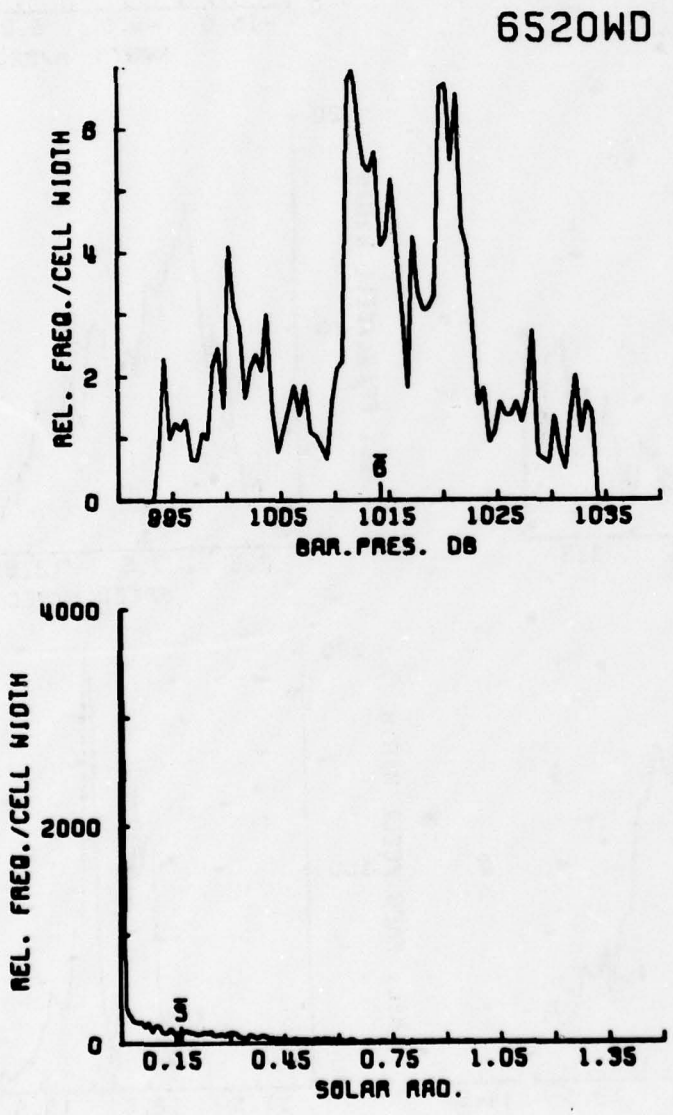






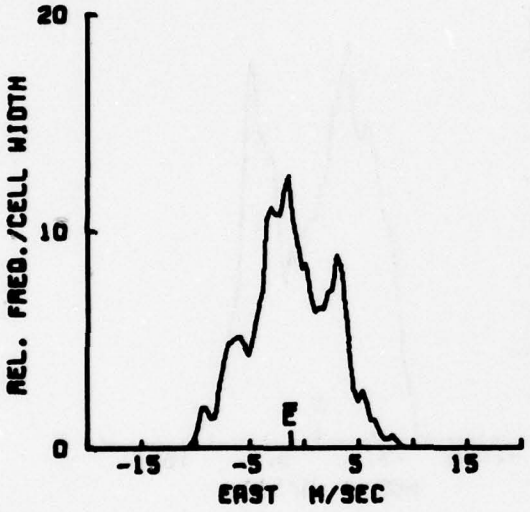


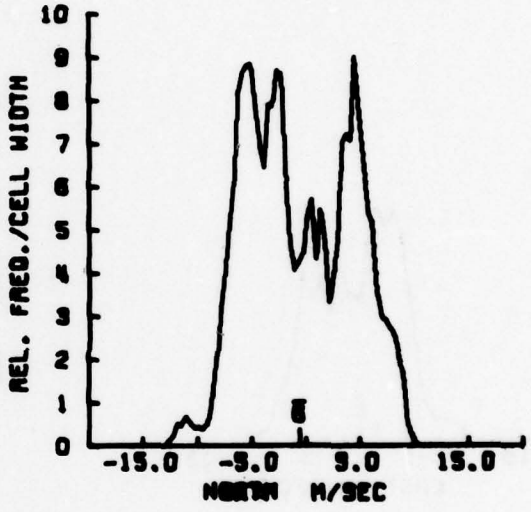


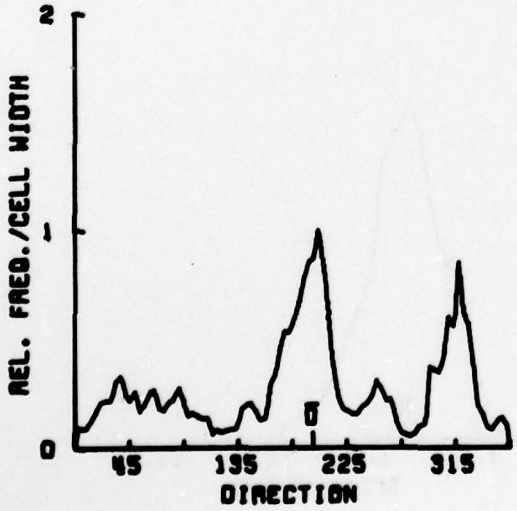

6520WD
REL. FREQ./CELL WIDTH
0
2
4
6
995
1005
1015
1025
1035
BAR.PRES. DB
REL. FREQ./CELL WIDTH
0
2000
4000
0.15
0.45
0.75
1.05
1.35
SOLAR RAD.

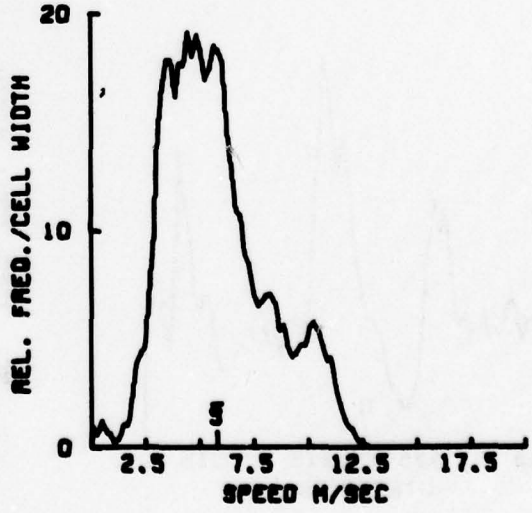
WIND

6520SB120A



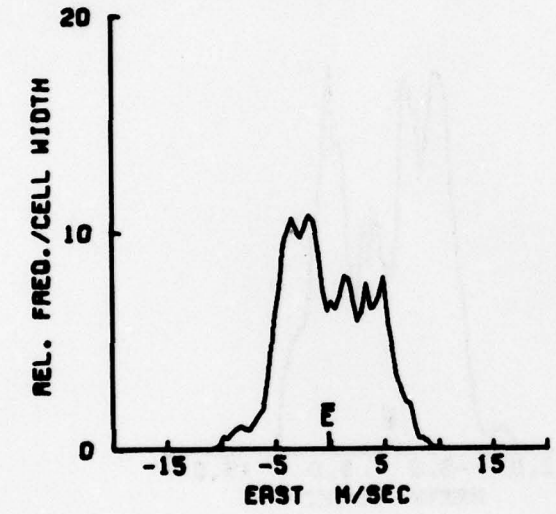


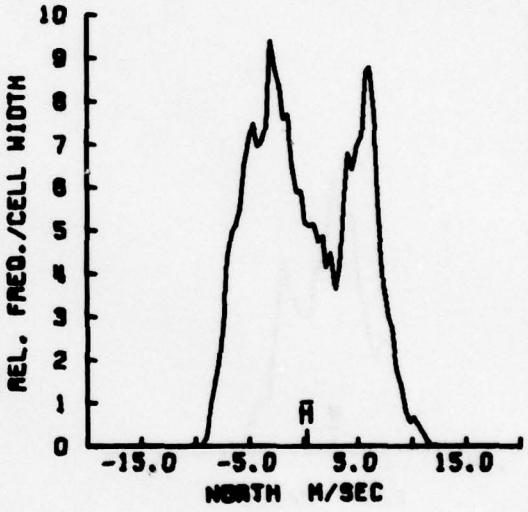


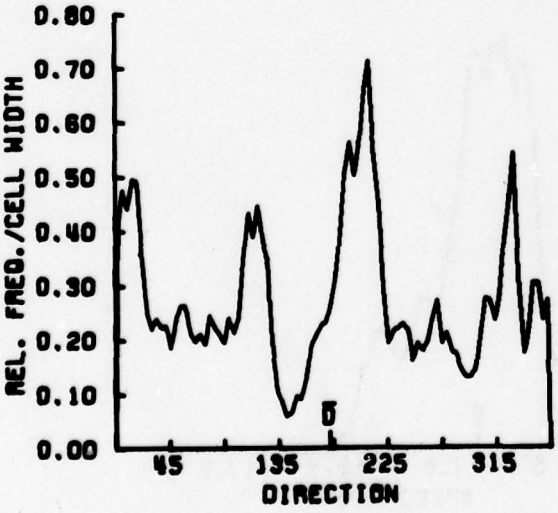


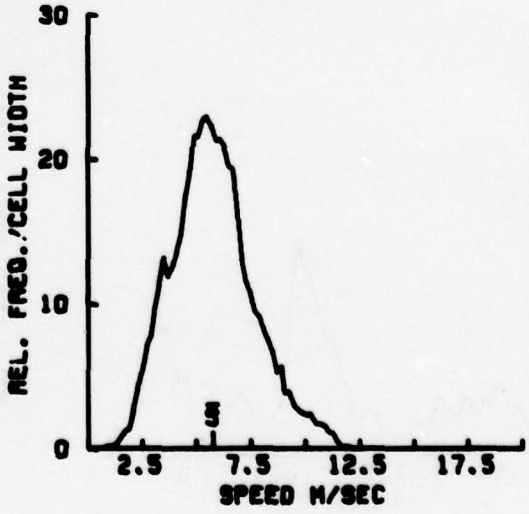
WIND

H2S1B120A



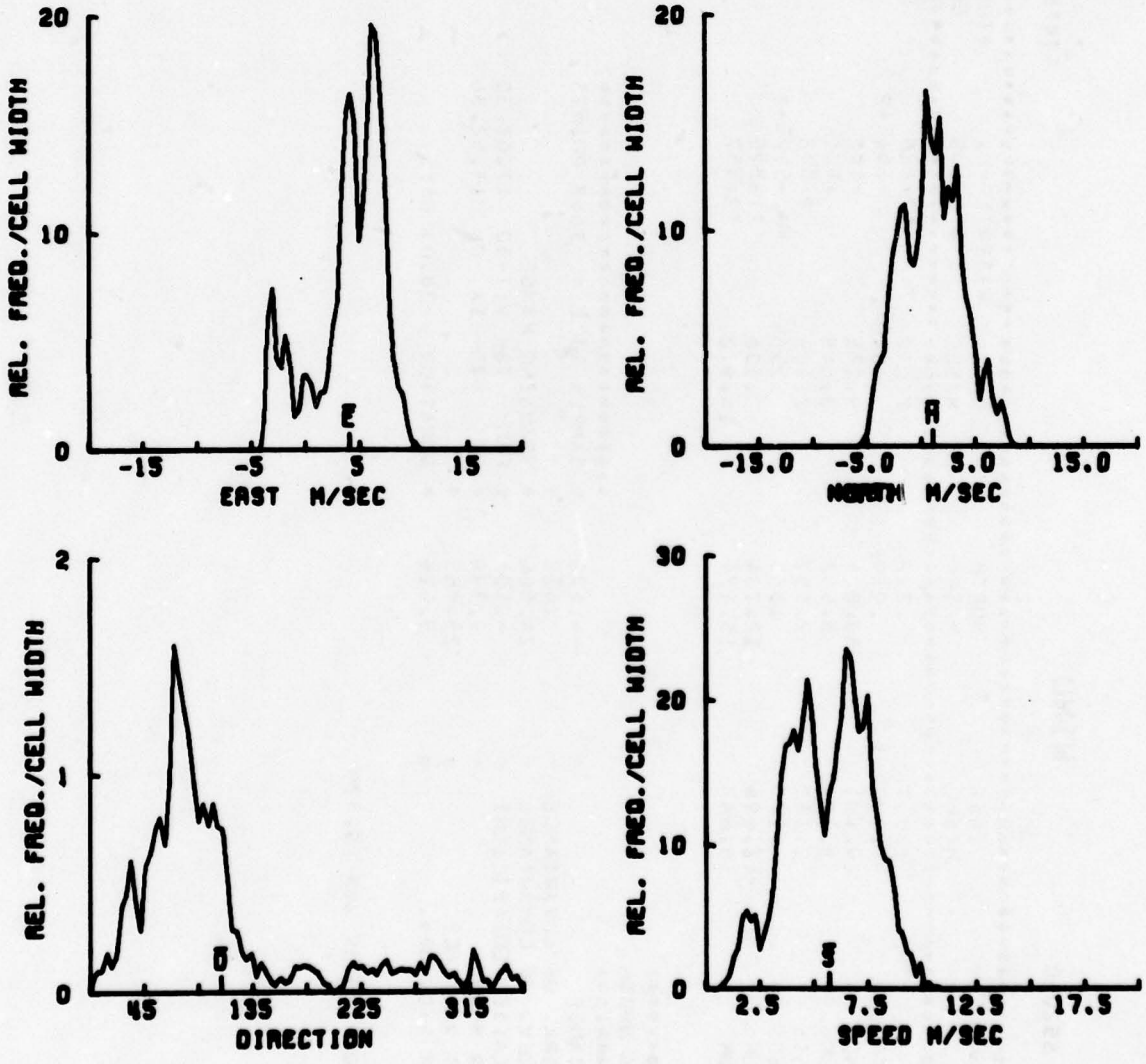






WIND

H2S2B120A



DATA/ 6520WD

WIND

STATS12

VARIABLE *	EAST	NORTH	SPEED	WATER TEMP.	AIR TEMP.	SOLAR RAD.	BAR. PRESS.
UNITS *	M/SEC	M/SEC	M/SEC	CELSIUS	CELSIUS	m-HR/M**2	MILLIBARS
MEAN =	1.057	.822	7.242	12.823	12.476	2783.098	1014.205
STD. ERR. =	.893E-1	.919E-1	.504E-1	.664E-2	.109E-1	64.145	.156
VARIANCE =	29.101	30.826	9.275	.161	.434	15010068.150	88.874
STD. DEV. =	5.394	5.552	3.045	.401	.659	3874.283	9.427
KURTOSIS =	2.317	2.557	2.403	2.558	2.989	5.484	2.464
SKEWNESS =	-.165	.353	.235	.902E-1	-.979E-1	1.697	-.194
MINIMUM =	-12.496	-12.734	.106	11.895	10.085	.773	993.787
MAXIMUM =	15.648	15.774	16.972	13.957	14.295	20953.211	1033.838

****
EAST & NORTH
****

COVARIANCE	=	-4.678
STD. ERR. OF COVARIANCE	=	.412
STD. DEV. OF COVARIANCE	=	24.866
CORRELATION COEFFICIENT	=	-.156
VECTOR MEAN	=	1.339
VECTOR VARIANCE	=	29.963
VECTOR STD. DEV.	=	5.474

****
* SAMPLE SIZE = 3648 POINTS
*
* SPANNING RANGE
* FROM 78- VII-30 17.07.30
* TO 78- IX -06 17.52.30
*
* DURATION 38.03 DAYS

JOB END / 20:39 JAN 05,'79

DATA/ 6820S8120A

WIND

VARIABLE	EAST	NORTH	SPEED
UNITS	M/SEC	M/SEC	M/SEC
MEAN	-1.210	-.561	5.779
STD. ERR.	.328E-1	.427E-1	.208E-1
VARIANCE	13.796	23.349	5.527
STD. DEV.	3.714	4.832	2.351
KURTOSIS	2.496	1.962	2.813
SKEWNESS	-.116E-1	.112	.382
MINIMUM	-10.582	-12.980	.673E-1
MAXIMUM	9.218	10.287	12.609

EAST & NORTH

COVARIANCE	-4.789	SAMPLE SIZE = 12810 POINTS
STD. ERR. OF COVARIANCE	.173	
STD. DEV. OF COVARIANCE	19.604	SPANNING RANGE
CORRELATION COEFFICIENT	-.267	FROM 78- VII-30 14.30.00
VECTOR MEAN	1.333	TO 78-VIII-17 09.28.00
VECTOR VARIANCE	18.573	
VECTOR STD. DEV.	4.310	DURATION 17.79 DAYS

DATA/ M2S18120A

VARIABLE	EAST	NORTH	SPEED
UNITS	M/SEC	M/SEC	M/SEC
MEAN	-.139	.889	5.767
STD. ERR.	.283E-1	.349E-1	.140E-1
VARIANCE	14.398	22.107	3.953
STD. DEV.	3.821	4.702	1.988
KURTOSIS	2.270	1.861	3.023
SKEWNESS	.976E-1	.129	.344
MINIMUM	-10.844	-10.278	.768E-1
MAXIMUM	10.091	12.850	12.403

EAST & NORTH

COVARIANCE	-1.003	SAMPLE SIZE = 18180 POINTS
STD. ERR. OF COVARIANCE	.116	
STD. DEV. OF COVARIANCE	15.636	SPANNING RANGE
CORRELATION COEFFICIENT	-.068E-1	FROM 78- VII-16 16.30.00
VECTOR MEAN	.330	TO 78-VIII-10 22.28.00
VECTOR VARIANCE	18.283	
VECTOR STD. DEV.	4.284	DURATION 25.25 DAYS

DATA/ M2S28120A

VARIABLE	EAST	NORTH	SPEED
UNITS	M/SEC	M/SEC	M/SEC
MEAN	4.037	1.004	5.660
STD. ERR.	.488E-1	.411E-1	.280E-1
VARIANCE	10.657	7.574	3.809
STD. DEV.	3.264	2.752	1.873
KURTOSIS	2.870	2.486	2.388
SKEWNESS	-.884	.128	-.143
MINIMUM	-3.897	-5.474	.788
MAXIMUM	10.305	8.494	10.782

EAST & NORTH

COVARIANCE	-.168	SAMPLE SIZE = 4480 POINTS
STD. ERR. OF COVARIANCE	.195	
STD. DEV. OF COVARIANCE	13.086	SPANNING RANGE
CORRELATION COEFFICIENT	-.166E-1	FROM 78-VIII-26 18.09.00
VECTOR MEAN	4.160	TO 78- IX -01 23.27.00
VECTOR VARIANCE	9.115	
VECTOR STD. DEV.	3.019	DURATION 6.22 DAYS

*** 6520W ***

PERIOD 5 DAYS	EAST M/SEC	NORTH M/SEC	SPEED M/SEC	AIR TEMPERATURE CELSIUS	WATER TEMPERATURE CELSIUS	BAROMETRIC PRESSURE DECIBARS	STATISTIC
(1)	.162	-2.328	5.420	13.465	12.420	1017.744	
(2)	-1.967	-5.371	6.167	13.127	11.894	1014.925	
(3)	-3.489	5.703	7.954	13.040	12.689	1013.884	
(4)	1.122	3.575	8.278	13.021	12.817	1001.649	
(5)	6.784	5.003	10.542	12.385	12.495	1008.759	MEAN
(6)	5.643	-1.106	5.951	12.417	12.488	1027.988	
(7)	4.000	-1.427	5.956	12.575	12.448	1020.291	
(8)	-5.635	2.559	7.472	12.590	12.574	1007.128	
(1)	12.236	12.977	1.287	.043	.430	17.273	
(2)	3.598	5.492	3.777	.022	.286	5.464	
(3)	14.887	10.323	6.651	.011	.731	30.799	
(4)	14.691	56.229	16.432	.011	.614	38.435	
(5)	16.496	26.562	2.970	.049	.268	73.753	VARIANCE
(6)	4.976	1.955	4.576	.057	.084	15.737	
(7)	11.414	12.053	6.028	.009	.183	18.884	
(8)	24.424	5.336	12.227	.041	.343	19.385	
(1)	3.498	3.602	1.134	.209	.656	4.156	
(2)	1.897	2.343	1.944	.148	.535	2.338	
(3)	3.858	3.213	2.579	.107	.855	5.550	
(4)	3.833	7.499	4.054	.109	.785	6.200	STANDARD
(5)	4.062	5.154	1.723	.222	.517	8.588	DEVIATION
(6)	2.231	1.398	2.139	.240	.291	3.967	
(7)	3.379	3.472	2.455	.097	.428	4.346	
(8)	4.942	2.310	3.497	.204	.585	4.403	
(1)	.039	.460	.522	.101	-.058	-.537	
(2)	-.494	.230	-.0845	.656	.010	.257	
(3)	.767	-1.065	-.181	1.139	-.821	-1.089	
(4)	.262	-.283	-.143	.155	-.492	.547	
(5)	-.909	.017	.542	-.365	.351	.328	SKEWNESS
(6)	.476	-.403	.444	-.316	.085	-.137	
(7)	-.872	-.123	-.289	.411	.415	.0588	
(8)	.513	-.222	-.255	1.385	-.015	-.0318	
(1)	1.780	2.028	3.101	2.597	2.266	1.588	
(2)	2.825	2.209	2.651	2.518	2.114	2.033	
(3)	2.627	3.987	1.729	4.602	2.546	3.799	
(4)	2.642	2.088	1.779	4.088	3.285	2.031	
(5)	2.526	1.707	2.984	1.827	2.674	1.576	KURTOSIS
(6)	2.755	2.932	2.600	2.013	2.743	1.621	
(7)	2.692	2.058	2.153	2.575	2.775	2.144	
(8)	2.259	2.199	1.978	4.729	2.811	1.388	
(1)	-7.164	-8.223	2.558	13.046	10.869	1011.086	
(2)	-7.268	-11.074	1.601	12.880	10.441	1011.283	
(3)	-9.551	-4.201	2.400	12.840	10.618	999.080	
(4)	-6.989	-12.734	.106	12.717	10.085	993.787	
(5)	-4.268	-4.327	6.686	11.895	11.139	993.898	MINIMUM
(6)	.573	-5.488	1.543	11.982	11.606	1021.572	
(7)	-4.821	-9.179	.555	12.386	11.512	1011.985	
(8)	-12.496	-3.083	.316	12.381	10.915	1000.457	
(1)	6.262	5.796	8.815	13.957	13.883	1022.466	
(2)	1.611	.096	11.924	13.533	12.929	1020.130	
(3)	5.266	10.775	12.137	13.384	14.016	1020.829	
(4)	15.648	14.181	16.972	13.339	14.107	1013.659	
(5)	13.889	15.774	16.049	12.722	13.613	1021.859	MAXIMUM
(6)	11.191	1.713	11.197	12.871	13.286	1033.838	
(7)	9.152	4.894	10.687	12.835	13.564	1028.480	
(8)	5.877	8.255	12.766	13.379	14.295	1013.237	

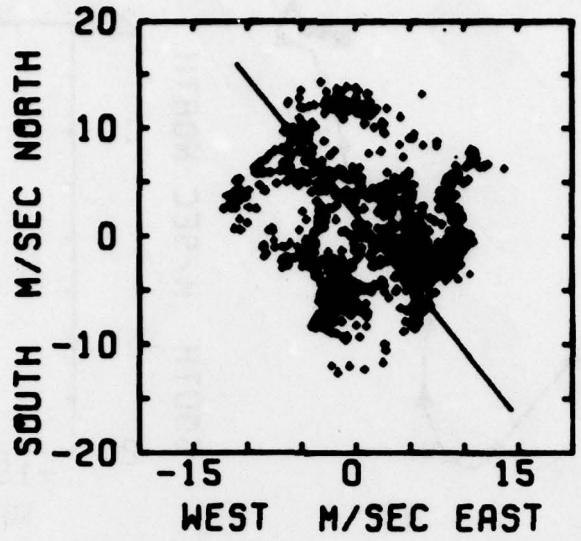
*** 65208 WIND ***

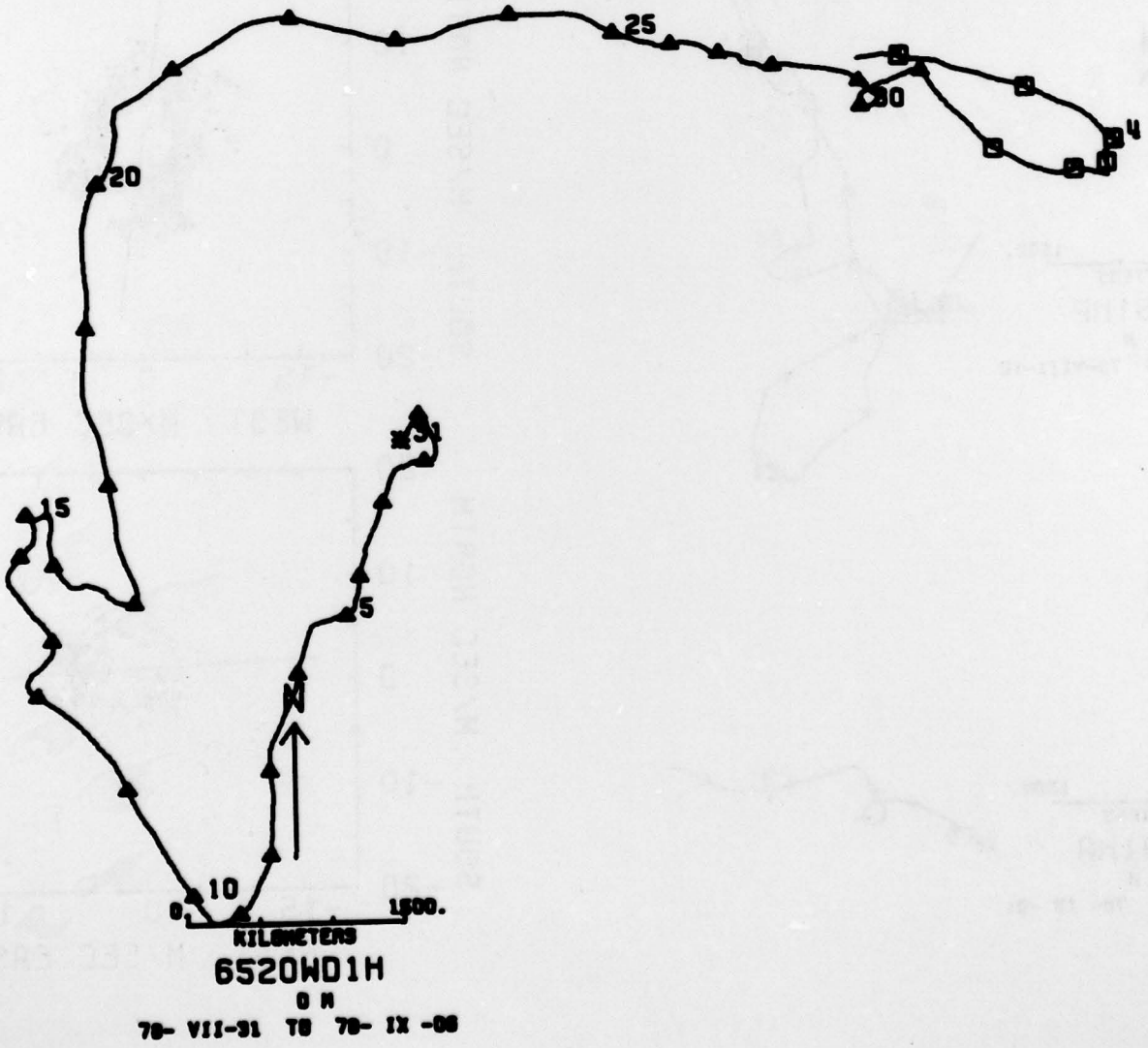
PERIOD (5 DAYS)	EAST M/SEC	NORTH M/SEC	SPEED M/SEC	STATISTIC
(1)	-.003	-1.885	4.356	
(2)	-1.668	-4.881	5.608	
(3)	-4.067	4.742	7.456	
(4)	2.111	-.292	5.403	
(5)				MEAN
(6)				
(7)				
(8)				
(1)	7.354	9.476	1.407	
(2)	3.405	4.147	2.698	
(3)	14.775	8.120	6.333	
(4)	10.752	20.792	6.898	
(5)				VARIANCE
(6)				
(7)				
(8)				
(1)	2.712	3.078	1.186	
(2)	1.845	2.036	1.643	
(3)	3.844	2.850	2.517	
(4)	3.279	4.560	2.626	
(5)				STANDARD DEVIATION
(6)				
(7)				
(8)				
(1)	-.130	.309	.715	
(2)	-.415	.311	-.111	
(3)	.743	-1.126	-.0857	
(4)	-.301	-.926	.461	
(5)				SKEWNESS
(6)				
(7)				
(8)				
(1)	1.820	1.955	2.767	
(2)	2.862	2.306	2.542	
(3)	2.561	4.378	1.715	
(4)	2.250	3.198	3.071	
(5)				KURTOSIS
(6)				
(7)				
(8)				
(1)	-6.462	-7.518	1.260	
(2)	-7.300	-9.442	1.475	
(3)	-10.582	-5.753	2.020	
(4)	-6.036	-12.550	.0673	
(5)				MINIMUM
(6)				
(7)				
(8)				
(1)	5.536	5.096	7.981	
(2)	2.733	.487	9.525	
(3)	5.240	10.287	12.180	
(4)	9.218	6.926	12.609	
(5)				MAXIMUM
(6)				
(7)				
(8)				

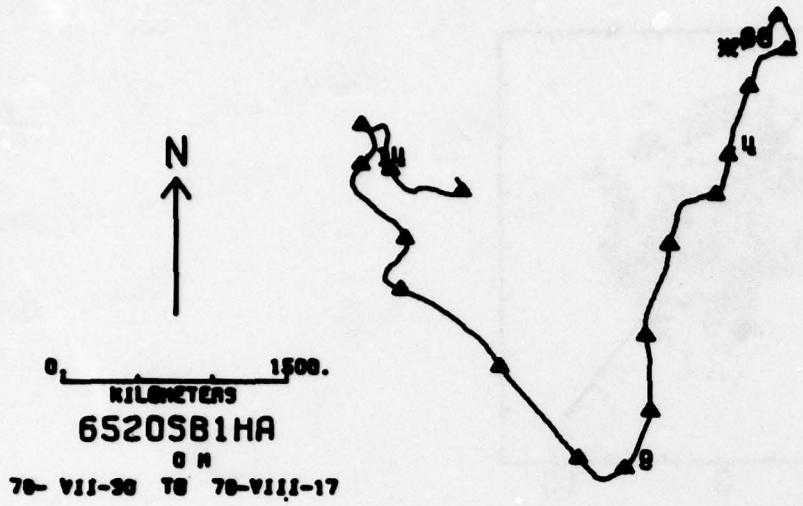
PERIOD 8 DAYS	EAST M/SEC	NORTH M/SEC	SPEED M/SEC	STATISTIC
(1)	-.025	-.667	4.331	
(2)	-2.233	-4.544	5.538	
(3)	-4.113	3.945	6.423	
(4)				
(5)				MEAN
(6)	4.407	.980	5.243	
(7)	3.829	1.018	5.894	
(8)				
(1)	7.817	12.015	1.521	
(2)	2.884	4.985	2.835	
(3)	1.280	12.581	5.088	
(4)				
(5)				VARIANCE
(6)	3.778	5.764	2.437	
(7)	14.417	8.592	3.960	
(8)				
(1)	2.796	3.466	1.233	
(2)	1.698	2.233	1.684	
(3)	1.131	3.547	2.256	
(4)				
(5)				STANDARD DEVIATION
(6)	1.944	2.402	1.561	
(7)	3.797	2.931	1.990	
(8)				
(1)	-.194	.190	.319	
(2)	-.278	.495	-.0666	
(3)	.414	-.255	.242	
(4)				
(5)				SKEWNESS
(6)	-.783	-.395	-.321	
(7)	-.698	.284	-.232	
(8)				
(1)	1.679	1.895	2.469	
(2)	2.252	2.471	2.692	
(3)	2.984	1.759	1.734	
(4)				
(5)				KURTOSIS
(6)	2.974	2.180	2.325	
(7)	2.180	2.457	2.291	
(8)				
(1)	-6.409	-7.247	1.567	
(2)	-6.719	-9.333	.937	
(3)	-7.009	-4.006	2.200	
(4)				
(5)				MINIMUM
(6)	-.791	-4.912	.982	
(7)	-3.897	-5.474	.788	
(8)				
(1)	5.296	8.062	8.886	
(2)	2.137	1.396	9.577	
(3)	-.353	10.039	11.246	
(4)				
(5)				MAXIMUM
(6)	7.723	5.596	8.626	
(7)	10.305	8.494	10.752	
(8)				

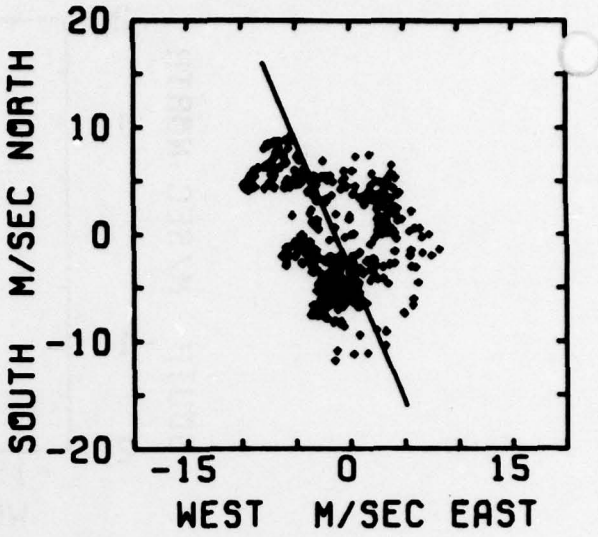
*** M2 WIND ***

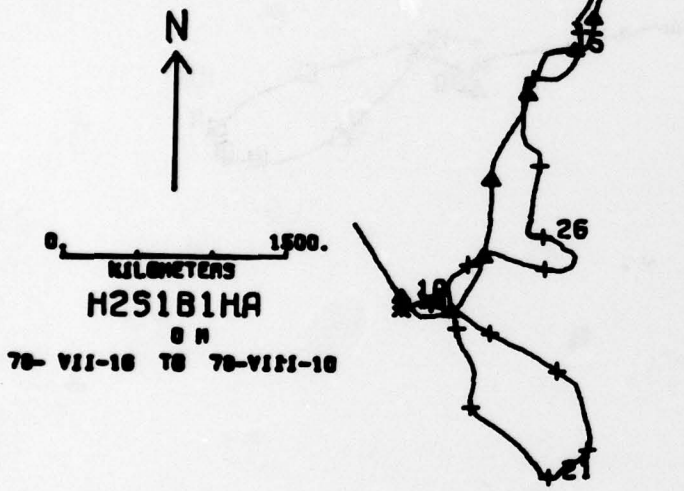
WIND RECORD DEPTH -0- M.

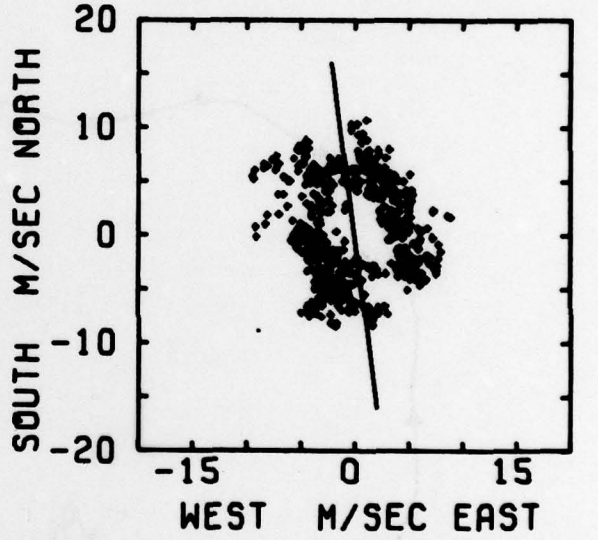


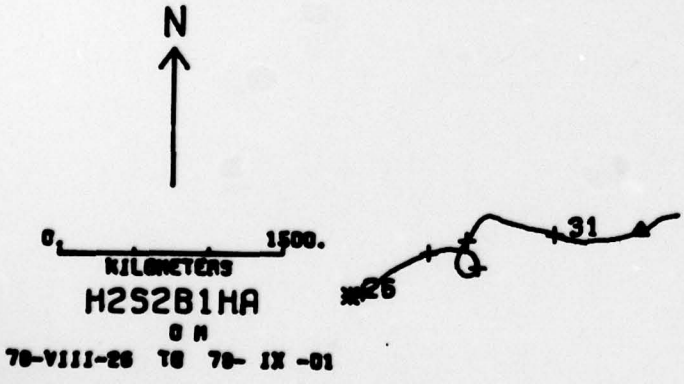


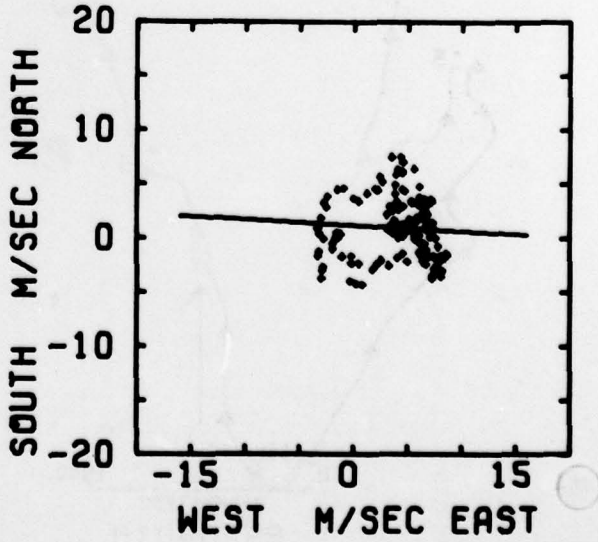

N
0
1500.
KILOMETERS
6520SB1HA
0 M
70- VII-30 TO 70-VIII-17

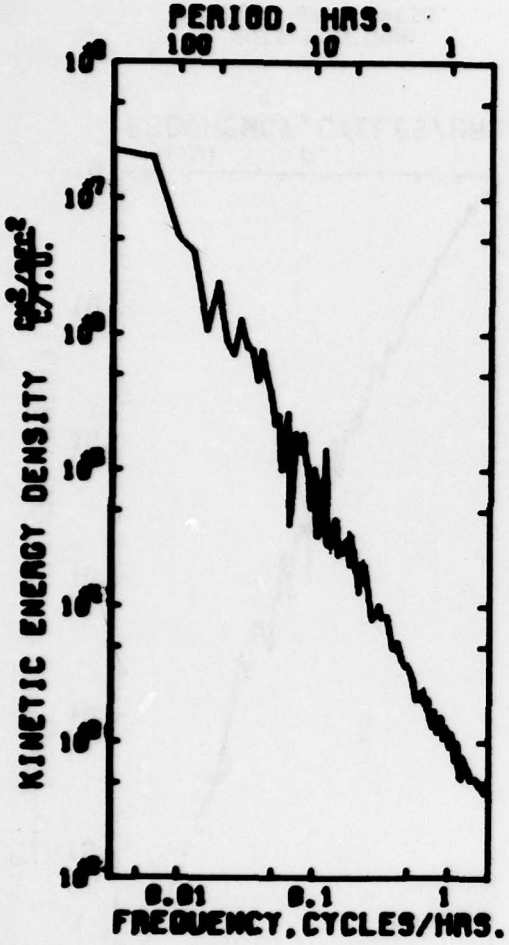

20
10
0
-10
-20
SOUTH M/SEC NORTH
-15
0
15
WEST M/SEC EAST


N
0
1500.
KILOMETERS
M2S1B1HA
0 M
70- VII-16 TO 70-VIII-16


20
10
0
-10
-20
SOUTH M/SEC NORTH
-15
0
15
WEST M/SEC EAST

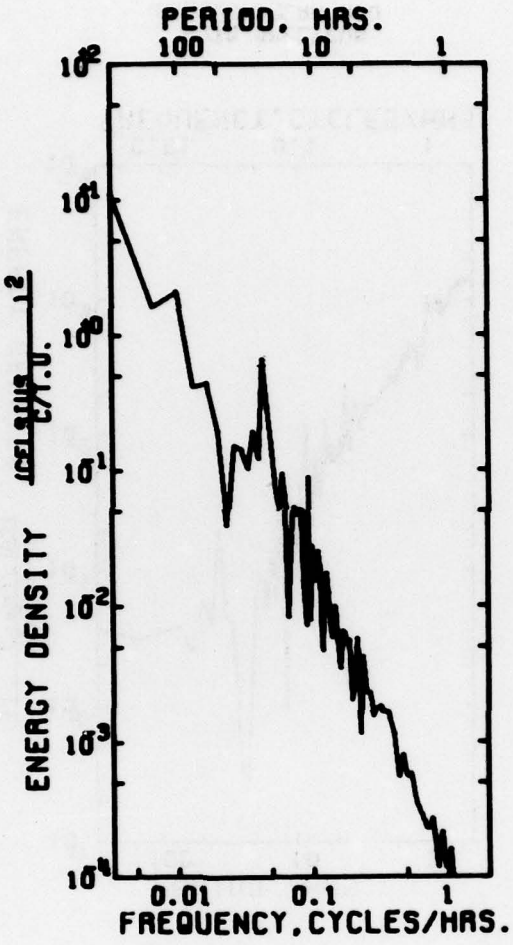

N
0
1500.
KILOMETERS
M2S2B1HA
0 M
70-VIII-26 TO 70- IX -01


20
10
0
-10
-20
SOUTH M/SEC NORTH
-15
0
15
WEST M/SEC EAST



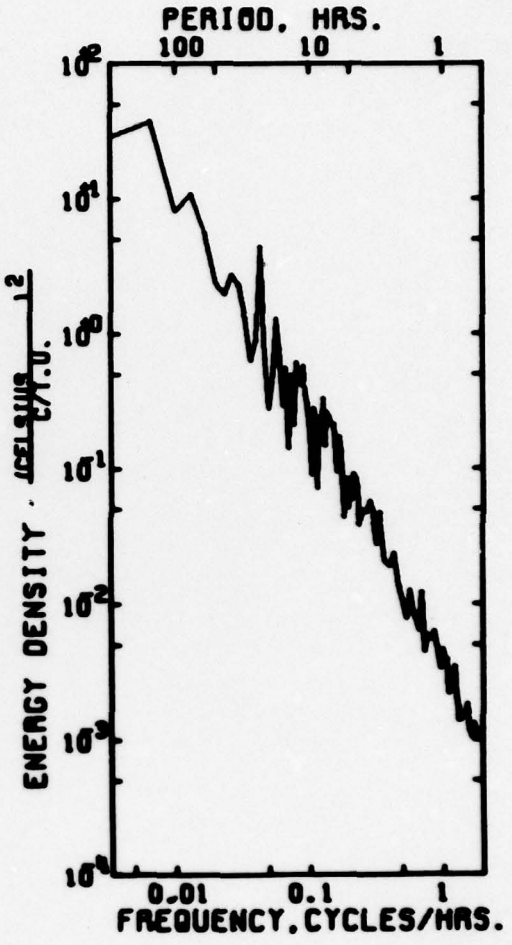
AUTO SPECTRUM
B52DWD EAST (W)
B52DWD NORTH (W)

78-VII-28 TO 78-IX-06
1 PIECES WITH 1875 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



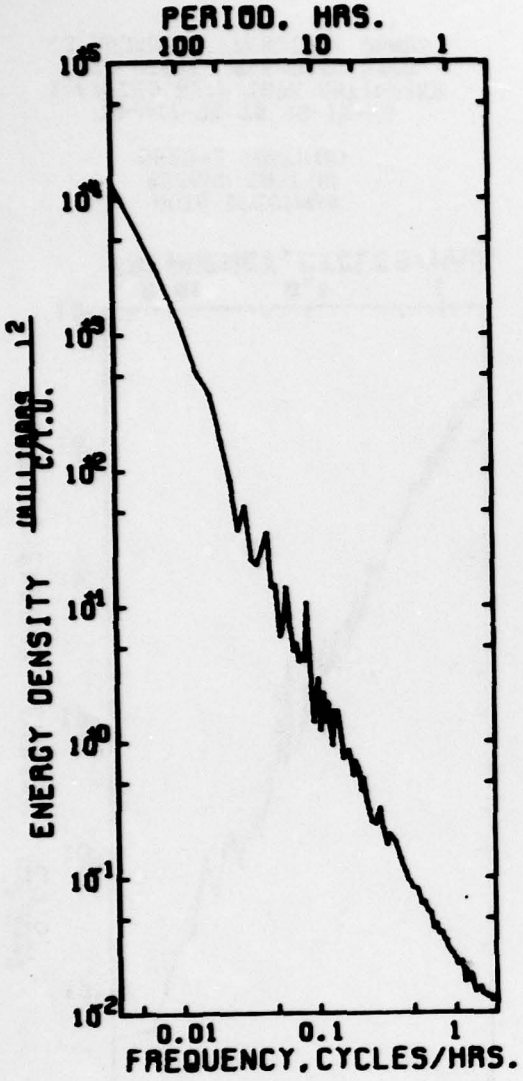
AUTO SPECTRUM
B52DWD WATER TEMP.

78-VII-30 TO 78-IX-06
1 PIECES WITH 1800 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

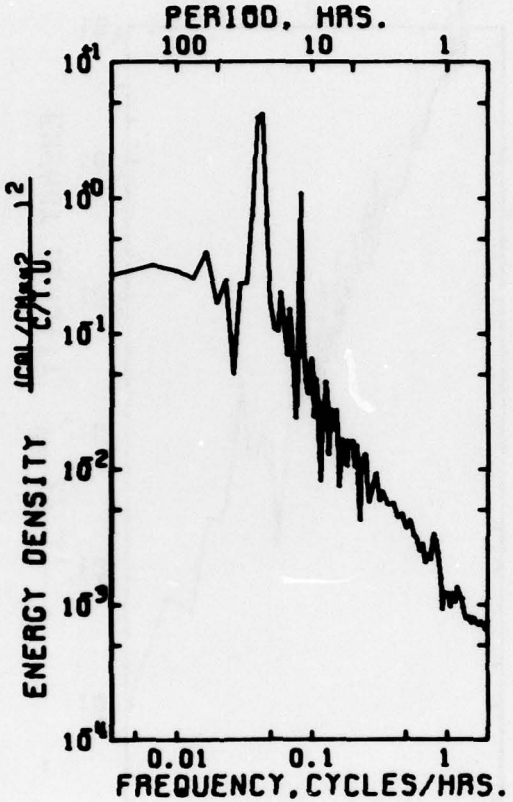


AUTO SPECTRUM
B52DWD AIR TEMP.

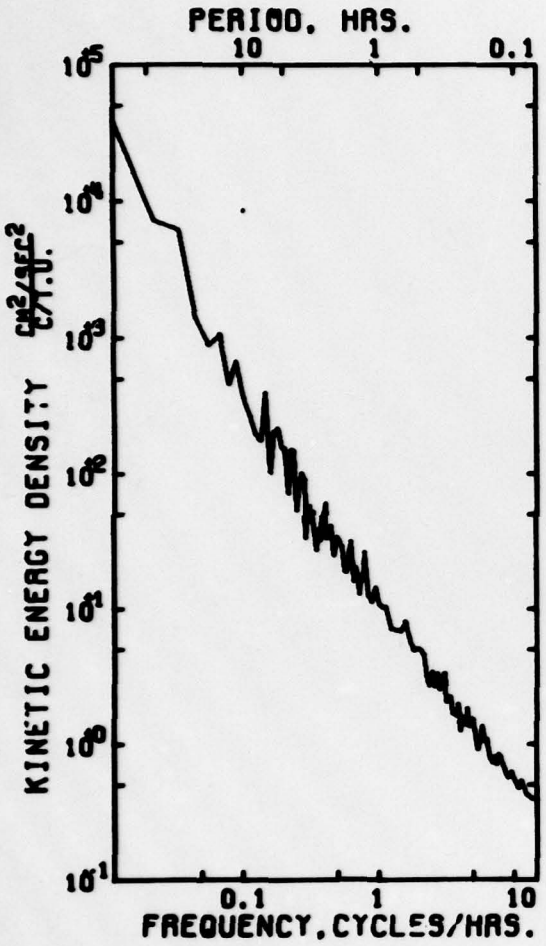
78-VII-30 TO 78-IX-06
1 PIECES WITH 1800 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



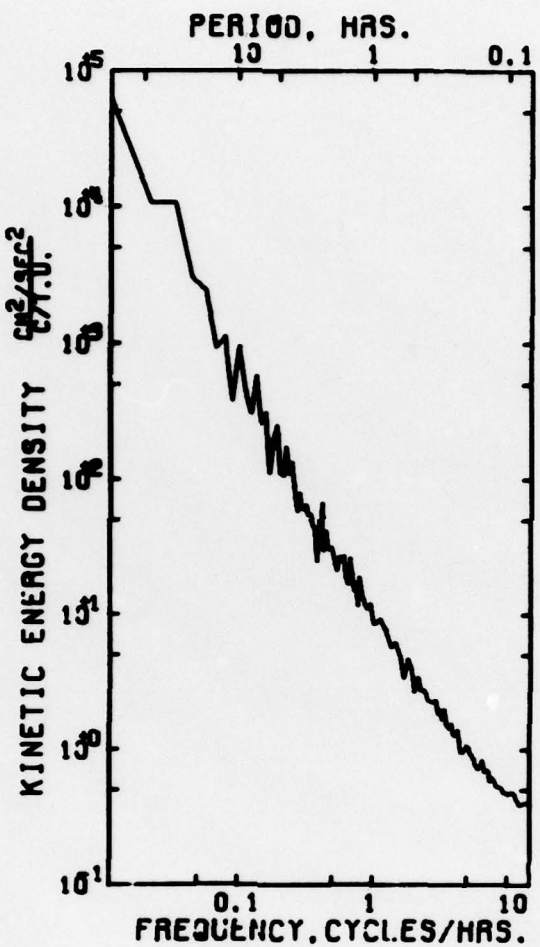
AUTO SPECTRUM
6S20WO BAR. PRESS.
WIND
78-VII-30 TO 78-IX-06
1 PIECES WITH 1800 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



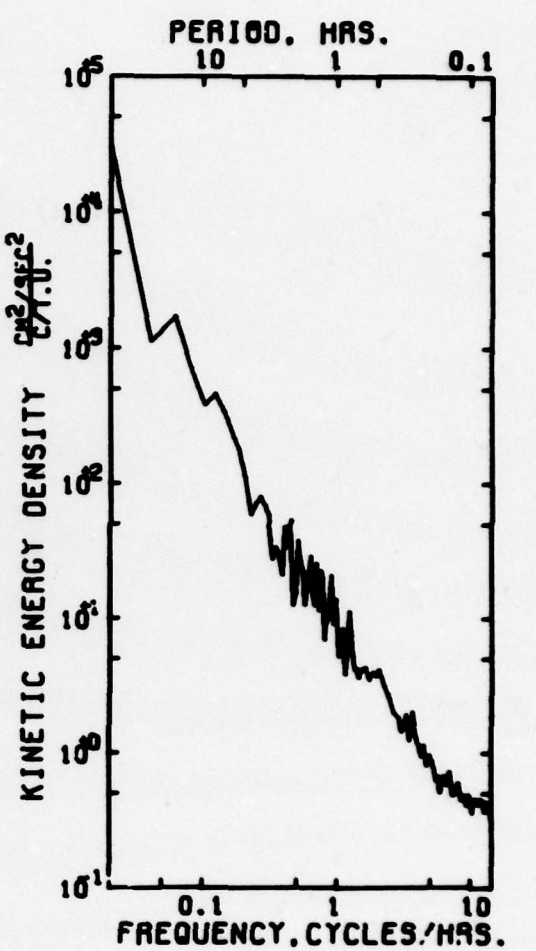
AUTO SPECTRUM
6S20WO SOLAR RAD.
WIND
78-VII-30 TO 78-IX-06
1 PIECES WITH 1800 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



AUTO SPECTRUM
6520981208 EAST COMP.
6520981208 NORTH COMP.
WIND
78-VII-30 TO 78-VIII-10
1 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



AUTO SPECTRUM
M2918120A EAST COMP.
M2918120A NORTH COMP.
WIND
78-VII-16 TO 78-VIII-07
2 PIECES WITH 4000 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS



AUTO SPECTRUM
M2928120A EAST COMP.
M2928120A NORTH COMP.
WIND
78-VIII-26 TO 78-IX-01
1 PIECES WITH 2187 ESTIMATES
PER PIECE. AVERAGED OVER
3 ADJACENT FREQUENCY BANDS

DATA INDEX

DEPTH	MOORING*	INSTRUMENT	DATA NAME	PAGE NUMBERS: TIME SERIES	HISTOGRAM	STATISTICS	FIVE-DAY STATISTICS	PROGRESSIVE VECTORS	SPECTRA
5 m	surface	VMCM	6521	1	37	72	81	--	--
10 m	surface	VMCM	6522	2	38	72	82	117	151
15 m	surface	VMCM	6523	3	39	72	83	118	151
15 m	spar	ACM	6531	4	40	72	84	119	152
17 m	spar	VACM	6532	5	41	72	86	120	153
20 m	surface	VMCM	6524	6	42	73	87	121	154
30 m	surface	VMCM	6525	7	43	73	88	122	154
40 m	surface	VMCM	6526	8	44	73	89	123	154
50 m	surface	VMCM	6527	9	45	73	90	124	155
70 m	surface	VMCM	6529	10	46	74	91	125	155
79 m	subsurface	VACM-DT	6511	11	47	74	92	126	156
79 m	surface	VACM	652,10	12	48	74	93	127	157
79 m	spar	VACM-DT	6536	13	49	74	94	128	158
82 m	subsurface	VACM-DT	6512	14	50	75	95	129	159
82 m	spar	ACM	6537	15	51	75	96	130	160
85 m	subsurface	VACM-P	6513	16	52	75	97	131	161
85 m	surface	VMCM	652,12	17	53	75	98	132	162
91 m	subsurface	VACM-DT	6515	18	54	76	99	133	163
94 m	subsurface	VACM	6516	19	55	76	100	134	164
97 m	subsurface	VACM	6517	20	56	76	101	135	165
100 m	subsurface	VACM-DT	6518	21	57	76	102	136	166
103 m	subsurface	VACM-DT	6519	22	58	77	103	137	167
106 m	subsurface	VACM	651,10	23	59	77	104	138	168
112 m	subsurface	VACM-DT	651,12	24	60	77	105	139	169
115 m	subsurface	VACM	651,13	25	61	77	106	140	170
118 m	subsurface	VACM	651,14	26	62	78	107	141	171
121 m	subsurface	VACM-DT	651,15	27	63	78	108	142	172
124 m	subsurface	VACM-DT	651,16	28	64	78	109	143	173
195 m	subsurface	VACM-DT	651,17	29	65	78	110	144	174
200 m	subsurface	VACM-DT	651,18	30	66	79	111	145	175
210 m	subsurface	VACM	651,19	31	67	79	112	146	176
295 m	subsurface	VACM-DT	651,20	32	68	80	113	147	177
300 m	subsurface	VACM-DT	651,21	33	69	80	114	148	178
310 m	subsurface	VACM-P	651,22	34	70	80	115	149	179
1000 m	subsurface	VACM-DT	651,23	35	71	80	116	150	180
				METEOROLOGICAL DATA					
	surface	VAWR	6520W	181	185	190	192	195	197
	surface	VMWR	6520S	183	187	191	193	196	199
	surface	VMWR	H2S1	184	188	191	194	196	199
	surface	VMWR	H2S2	184	189	191	194	196	199

* subsurface = 651/W1, surface = 652/W2, spar = 653/W3

MANDATORY DISTRIBUTION LIST

FOR UNCLASSIFIED TECHNICAL REPORTS, REPRINTS, AND FINAL REPORTS
PUBLISHED BY OCEANOGRAPHIC CONTRACTORS
OF THE OCEAN SCIENCE AND TECHNOLOGY DIVISION
OF THE OFFICE OF NAVAL RESEARCH

(REVISED NOVEMBER 1978)

1 Deputy Under Secretary of Defense
(Research and Advanced Technology)
Military Assistant for Environmental Science
Room 3D129
Washington, D.C. 20301

Office of Naval Research
800 North Quincy Street
Arlington, VA 22217
3 ATTN: Code 483
1 ATTN: Code 460
2 ATTN: 102B

1 CDR J. C. Harlett, (USN)
ONR Representative
Woods Hole Oceanographic Inst.
Woods Hole, MA 02543

Commanding Officer
Naval Research Laboratory
Washington, D.C. 20375
6 ATTN: Library, Code 2627

12 Defense Documentation Center
Cameron Station
Alexandria, VA 22314
ATTN: DCA

Commander
Naval Oceanographic Office
NSTL Station
Bay St. Louis, MS 39522
1 ATTN: Code 8100
1 ATTN: Code 6000
1 ATTN: Code 3300

1 NODC/NOAA
Code D781
Wisconsin Avenue, N.W.
Washington, D.C. 20235

JASIN DISTRIBUTION LIST:

49 copies
Version: 23 August 1979

L. M. Brekhovskikh
Dept. of Oceanology
USSR Academy of Sciences
14 Leninsky Prospect
Moscow B-71, USSR

Prof. W. V. Burt
ONR - Branch Office London
223-231 Old Marylebone Rd.
London NW1 3TH ENGLAND

Prof. J. A. Businger
Dept. of Atmospheric Sci.
University of Washington
Seattle, WA 98195

Lt. H. Lee Dantzler, Jr.
Code 3404
US Naval Oceanog. Office
NSTL Station, MS 39529

Dr. R. E. Davis, A-030
Dr. R. Pinkel
Prof. Joseph Reid
Scripps Inst. of Oceanog.
La Jolla, CA 92093

Dr. R. A. deSzoeke
Dr. Murray Levine
Prof. Pearn P. Niiler
Dr. C. A. Paulson
School of Oceanography
Oregon State University
Corvallis, OR 97331

Dr. F. W. Dobson
Dr. J. A. Elliott
Dr. N. S. Oakey
Bedford Inst. of Oceanogr.
Dartmouth, Nova Scotia,
CANADA B2Y 4A2

Dr. R. Dorrestein
Dr. P. Krusemann
Dr. G. J. Prangsma
K.N.M.I.
Utrechtsweg 297,
De Bilt, NETHERLANDS

Dr. David J. Ellett
Dunstaffnage Marine Res. Lab.
P. O. Box 3
Oban Argyll PA34 4AD SCOTLAND

Dr. D. L. Evans
Grad. School of Oceanogr.
University of Rhode Island
Narragansett, R.I. 02882

Dr. Lou Goodman
Code 481, Bldg. 101-N
Naval Underwater Syst. Ctr.
Newport, R.I. 02840

Dr. Walter Grabowski
Dr. R. B. Lambert, Jr.
Science Applications, Inc.
8400 Westpark Dr.
McLean, VA 22101

Dr. A. Green
Dr. Henry T. Perkins
Dr. Kim D. Saunders
NORDA Code 331
NSTL Station, MS 39529

Dr. John Gould
Dr. T. Guymer
Dr. Raymond Pollard
Miss Margaret A. Saunders
Dr. Peter Saunders
Institute of Oceanog. Sci.
Wormley, Godalming,
Surrey GU8 5UB ENGLAND

Dr. D. Halpern
NOAA/PMEL
3711 - 15th Ave. N.E.
Seattle, WA 98105

Paul D. Higley
Raytheon Ocean Systems, Inc.
Box 360
Portsmouth, R.I. 02871

Dr. G. Jenkins
Meteorology Division
Chemical Defense Estab.
Porton Down, Salisbury
Wilts SP4 0JQ ENGLAND

Dr. I. S. F. Jones
RAN Research Laboratory
P.O. Box 706, Darlinghurst
N.S.W. 2010, AUSTRALIA

Dr. T. W. Kao
Catholic University of America
Dept. of Mechanical Eng.
Washington, D.C. 20064

Dr. R. Kase
Dr. P. Minnett
Mr. Hartmut Peters
Prof. G. Siedler
Prof. J. D. Woods
Dr. W. Zenk
Institut fur Meereskunde
Dusternbrookerweg 20, D23 Kiel 1
F. R. GERMANY

Dr. Bruce Lake
TRW/DSSG
One Space Park
Redondo Beach, CA 90278

Dr. W. Large
Dr. S. Pond
Institute of Oceanography
U. of British Columbia
Vancouver 8, CANADA

Dr. Edward Monahan
Dept. of Oceanography
University College
Galway, IRELAND

Dr. P. Speth
Institut fur Geophysik und
Meteorologie
Albertus Magnus-Platz 5 Koln 41
F. R. GERMANY

Dr. R. H. Stewart, A-025
Scripps Inst. of Oceanog.
La Jolla, CA 92093

Dr. C. C. Teague
215 Durand Building
Stanford University
Stanford, CA 94305

Dr. Ortwin VonZweck
Code 3431
U.S. Naval Oceanog. Office
NSTL Station, MS 39529

Woods Hole Oceanographic Institution
WHOI-79-65

A COMPILATION OF MOORED CURRENT METER AND WIND RECORDER DATA, VOLUME XVIII (JASIN 1978, MOORINGS 651-653) by Susan Tarbell, Melbourne G. Briscoe, and Robert A. Weller. 233 pages. July 1979. Prepared for the Office of Naval Research under Contract N00014-76-C-0197; NR 083-400 to the Woods Hole Oceanographic Institution and Contract N00014-75-C-0152; NR 083-005 to Scripps Institution of Oceanography, and for the National Science Foundation under Grant OCE 77-25803.

Summaries of current and temperature measurements from three moorings in the 1978 Joint Air-Sea Interaction Project (JASIN) are presented; the moorings are WHOI/JASIN numbers 651/W1, 652/W2, and 653/W3. The instruments were either Vector Averaging Current Meters (VACM), Scripps Institution of Oceanography Vector Measuring Current Meters (VMCM), or Neil Brown Acoustic Current Meters (ACM). Displays include time series, histograms, progressive vector diagrams, scatter plots, and spectra; statistics are given for the entire deployment period (some 40 days) and for each 5-day segment.

Additional measurements include pressure and vertical temperature gradient. Wind records and other meteorological observations from one of the moorings are given, as well as partial wind records from another JASIN mooring (H2).

1. Current Meters
2. Moorings
3. JASIN

I. Tarbell, Susan
II. Briscoe, Melbourne G.
III. Weller, Robert A.
IV. N00014-76-C-0197; NR 083-400
V. N00014-75-C-0152; NR 083-005
VI. OCE 77-25803

This card is UNCLASSIFIED

Woods Hole Oceanographic Institution
WHOI-79-65

A COMPILATION OF MOORED CURRENT METER AND WIND RECORDER DATA, VOLUME XVIII (JASIN 1978, MOORINGS 651-653) by Susan Tarbell, Melbourne G. Briscoe, and Robert A. Weller. 233 pages. July 1979. Prepared for the Office of Naval Research under Contract N00014-76-C-0197; NR 083-400 to the Woods Hole Oceanographic Institution and Contract N00014-75-C-0152; NR 083-005 to Scripps Institution of Oceanography, and for the National Science Foundation under Grant OCE 77-25803.

Summaries of current and temperature measurements from three moorings in the 1978 Joint Air-Sea Interaction Project (JASIN) are presented; the moorings are WHOI/JASIN numbers 651/W1, 652/W2, and 653/W3. The instruments were either Vector Averaging Current Meters (VACM), Scripps Institution of Oceanography Vector Measuring Current Meters (VMCM), or Neil Brown Acoustic Current Meters (ACM). Displays include time series, histograms, progressive vector diagrams, scatter plots, and spectra; statistics are given for the entire deployment period (some 40 days) and for each 5-day segment.

Additional measurements include pressure and vertical temperature gradient. Wind records and other meteorological observations from one of the moorings are given, as well as partial wind records from another JASIN mooring (H2).

1. Current Meters
2. Moorings
3. JASIN

I. Tarbell, Susan
II. Briscoe, Melbourne G.
III. Weller, Robert A.
IV. N00014-76-C-0197; NR 083-400
V. N00014-75-C-0152; NR 083-005
VI. OCE 77-25803

This card is UNCLASSIFIED

Woods Hole Oceanographic Institution
WHOI-79-65

A COMPILATION OF MOORED CURRENT METER AND WIND RECORDER DATA, VOLUME XVIII (JASIN 1978, MOORINGS 651-653) by Susan Tarbell, Melbourne G. Briscoe, and Robert A. Weller. 233 pages. July 1979. Prepared for the Office of Naval Research under Contract N00014-76-C-0197; NR 083-400 to the Woods Hole Oceanographic Institution and Contract N00014-75-C-0152; NR 083-005 to Scripps Institution of Oceanography, and for the National Science Foundation under Grant OCE 77-25803.

Summaries of current and temperature measurements from three moorings in the 1978 Joint Air-Sea Interaction Project (JASIN) are presented; the moorings are WHOI/JASIN numbers 651/W1, 652/W2, and 653/W3. The instruments were either Vector Averaging Current Meters (VACM), Scripps Institution of Oceanography Vector Measuring Current Meters (VMCM), or Neil Brown Acoustic Current Meters (ACM). Displays include time series, histograms, progressive vector diagrams, scatter plots, and spectra; statistics are given for the entire deployment period (some 40 days) and for each 5-day segment.

Additional measurements include pressure and vertical temperature gradient. Wind records and other meteorological observations from one of the moorings are given, as well as partial wind records from another JASIN mooring (H2).

1. Current Meters
2. Moorings
3. JASIN

I. Tarbell, Susan
II. Briscoe, Melbourne G.
III. Weller, Robert A.
IV. N00014-76-C-0197; NR 083-400
V. N00014-75-C-0152; NR 083-005
VI. OCE 77-25803

This card is UNCLASSIFIED

Woods Hole Oceanographic Institution
WHOI-79-65

A COMPILATION OF MOORED CURRENT METER AND WIND RECORDER DATA, VOLUME XVIII (JASIN 1978, MOORINGS 651-653) by Susan Tarbell, Melbourne G. Briscoe, and Robert A. Weller. 233 pages. July 1979. Prepared for the Office of Naval Research under Contract N00014-76-C-0197; NR 083-400 to the Woods Hole Oceanographic Institution and Contract N00014-75-C-0152; NR 083-005 to Scripps Institution of Oceanography, and for the National Science Foundation under Grant OCE 77-25803.

Summaries of current and temperature measurements from three moorings in the 1978 Joint Air-Sea Interaction Project (JASIN) are presented; the moorings are WHOI/JASIN numbers 651/W1, 652/W2, and 653/W3. The instruments were either Vector Averaging Current Meters (VACM), Scripps Institution of Oceanography Vector Measuring Current Meters (VMCM), or Neil Brown Acoustic Current Meters (ACM). Displays include time series, histograms, progressive vector diagrams, scatter plots, and spectra; statistics are given for the entire deployment period (some 40 days) and for each 5-day segment.

Additional measurements include pressure and vertical temperature gradient. Wind records and other meteorological observations from one of the moorings are given, as well as partial wind records from another JASIN mooring (H2).

1. Current Meters
2. Moorings
3. JASIN

I. Tarbell, Susan
II. Briscoe, Melbourne G.
III. Weller, Robert A.
IV. N00014-76-C-0197; NR 083-400
V. N00014-75-C-0152; NR 083-005
VI. OCE 77-25803

This card is UNCLASSIFIED